

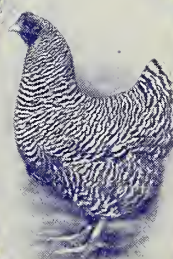
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DECEMBER

# THE INDUSTRIOUS HEN



AN ILLUSTRATED MONTHLY  
FOR  
POULTRY, LIVE STOCK AND THE FARM

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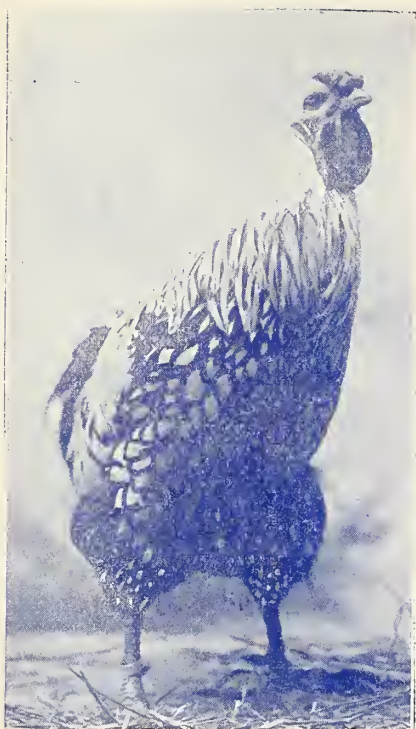
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Published  
By  
THE INDUSTRIOUS HEN  
COMPANY  
Knoxville Tenn.



RHODE ISLAND REDS ARE POPULAR



"See that Lacing on Breast and Body"

**A JONES WINNER**

## GRAND SEASON'S OPENING

To test the merits of my young stock this season, as well as to retain the high rank of the old ones, I made just one Fall Show, selecting the largest exhibit in the South, Nashville, Tennessee, State Fair, 1906.

### JONES, THE WYANDOTTE MAN

Having won at every show of any importance in all sections of the U. S., just decided to try the Southland and as usual captured the majority of all prizes offered, winning

### ALL FIRSTS IN THE CLASSES AND ALL SECONDS BUT TWO

A record that is only a repetition of itself and equaled by no breeder in America. No other breeder has competed and won at as many large shows on

### SILVER, GOLDEN AND WHITE WYANDOTTES

I have a grand lot of young birds to sell and still have quite a lot of yearling breeders that I am offering. In all I have

### 2500 HEAD TO OFFER AT PRICES THAT WILL MOVE THEM

If you haven't a copy of my handsome color plate catalog don't fail to send for one; it is a work of art and a book that is full of valuable information. Send 10 cents in stamps for mailing.

### SIX LITTERS OF HIGH CLASS SCOTCH COLLIES FOR SALE

**R. E. JONES, The Pines**

R. F. D. No. 30, PADUCAH, KY., U. S. A.

## BOSWELL'S ACME WHITE WYANDOTTES

THEY ARE STILL WINNING THE BLUE WHEREVER SHOWN

Whether exhibited by myself or by my customers, my birds never fail to win their share—the "lion's share"—of all the prizes. They have won this season, as heretofore, in the strongest shows, North, East, South and West. For this there is a reason:

### THEY ARE BRED TO WIN.

The ACME WHITE WYANDOTTES were originated and introduced by myself, and have met with marvelous success in the different shows of the country. I have shipped stock and eggs to thousands of customers all over the world, and up to date I have never heard from a single person in complaint that my stock was not as represented. How could they be other than satisfied? For the birds I sell are what their name indicates—the "ACME" of White Wyandotte breeding—bred by a man who knows what it takes to make a winning White Wyandotte, and whose business it is to breed and sell show birds.

**Hundreds of Testimonials**—Vouch for my ability to "deliver the goods," and testify that I always deal with my customers on the square. My customers come back to me from year to year, because they know that the birds I sell are

### BRED FOR MERIT AND SOLD ON HONOR.

I mate and breed my birds for the highest possible exhibition quality, and at the same time give attention to their egg-producing qualities. There are no better egg-producers in the world than the ACME WHITE WYANDOTTES, and they have proven as superior in this regard as in their prize-winning qualities, having laid in my own yards an average of 214 eggs to a pullet in one year—individuals laying as high as 270 eggs during the twelve months. The strain that is superior to the ACME strain does not exist.

Description of Birds, Terms and Prices on Application. Write for my Illustrated Circular.

ACME POULTRY PLANT,

**JOHN W. BOSWELL, Jr., Proprietor,**

R. F. D. No. 1, BECKWITH, TENN.

## "SHAW" WHITE ROCKS

Make clean sweep of all firsts and specials at Kentucky State Show, winning \$50.00 Silver Cup for best display, \$25.00 Cup for best Cock, Hen, Cockerel and Pullet, and \$10.00 gold for highest scoring pen in show (score 192 points). RECORD SCORE FOR WHITE ROCKS.

At Tennessee State Show, 1906, all ribbons but two; winning the handsome White Rock Club Specials for best cock, hen, cockerel, pullet and pen. These winnings are a repetition of our former records at Chicago, Indianapolis, Illinois State Shows and elsewhere, and prove that "Shaw" White Rocks are without a peer. Judge Hewes says: "The Best Strain of White Rocks in U. S." Judge Russell: "The Best White Rocks I Ever Handled." Matings better this season than ever. Eggs \$5 and \$3 per 15. Good breeding pens, cockerel and 6 pullets, \$15 up. Write for what you want.

**Wabash Poultry Farm,**

R. F. D. No. 3,

PALESTINE, ILL.



# THE INDUSTRIOUS HEN

An Illustrated Monthly for Poultry, Live Stock and the Farm

Vol. 3

Knoxville, Tenn., December, 1906

(Whole No. 31)

No. 7

## POULTRY EXPERIMENTS—No. 2

AGRICULTURAL EXPERIMENT STATION, UNIVERSITY OF TENNESSEE

FOR the purposes of comparison, we reproduce the September tabulated results, along with the October tables. The most notable thing about the October report is the great increase in cost of egg production. The average cost per dozen for September was 11 1-4 cents per dozen, while it is 23 11-12 cents per dozen for October, thus the cost of production was over doubled. By comparing the amounts of feed consumed it will be seen that the amounts of both grain and mash feed consumed was practically the same for both months, being 423 pounds of grain and 229 7-8 pounds of mash for

the moult as suggested in the November account and the birds were developing feathers very rapidly, thus drawing away flesh-making tissue and so prevented the gain in weight; second, there was an epidemic of chicken pox or sorehead in the flock during October and this also helped to put the birds out of egg-producing condition during a portion of the month. The decrease in number of eggs produced is largest in pen No. 2, Barred Rocks, and this pen was one of the worst effected by the sorehead outbreak. The only pen to increase the number of eggs for October over September was White Rocks,

RECORD FOR MONTH OF SEPTEMBER, 1906

Breed	Pen No.	No. Hens in Pen	Weighted In	Weighted Out	No. Eggs	Weight of Eggs, ozs.	Feed, Lbs		Cost Per Dozen	Average Per Hen
							Grain	Mash		
White Wyandottes.	1	12	48 3/4	53 1/4	132	257	60	34 1/2	7 1/2	11
Barred Rocks.....	2	4	24 1/2	27 1/2	51	101	33	15 1/2	8 1/2	12 3/4
Barred Rocks.....	3	12	62 1/2	67 1/2	115	218	60	42 1/2	9 1/2	9 1/4
White Rocks.....	4	12	66 1/2	69 1/2	67	127	60	42 1/2	18	5 1/2
S. C. B. Orpingtons	5	9	42 1/2	43 1/2	52	97 1/2	45	14 1/2	14 1/2	6 1/2
Black Langshans..	6	4	18 1/2	20 1/2	29	59	30	14 1/2	16 1/2	7 1/4
S. C. B. Leghorns..	7	11	31 1/2	34 1/2	62	118	45	22 1/2	10 1/2	5 3/4
S. C. W. Leghorns..	8	12	32 1/2	32 1/2	90	160	45	28 1/2	10 1/2	7 1/2
White Wyandottes.	9	8	39 1/2	43 1/2	103	206	45	16 1/2	4 1/2	12 1/4
Total ... ..	84	366 1/2	391 1/2	701	1343 1/2	423	229 7/8	11 1/2	8 1/2	

REMARKS: The grain was valued at 1 1-3c per pound. It was composed of equal parts cracked corn, wheat, and oats. The mash (fed dry) composed of 5 parts shorts, 5 parts bran and 1 part digester tankage (Swift), was valued at 1 1/4c per pound. In estimating the cost of eggs labor was not considered and loss or gain or flesh was valued at 9c per pound.

JAS. TYLER, Asst. Poultryman.

September, against 426 1-2 pounds of grain and 231 pounds of mash for October. The cost price per pound of the grain and mash for the two months is the same. Then the increase in cost of production is not on account of extra cost or amounts of feed consumed in the month of October. Looking to the total gain or loss in weight, which very materially assist in determining the cost of egg production, we find that the entire flock weighed in at 391 7-8 pounds for October and weighed out at only one pound heavier or 392 1-8 pounds. It will be noticed that gain or loss of weight is valued at 9 cents a pound. In September, the entire flock made a net gain in weight of 24 5-8 pounds. This gain very materially kept down the cost of egg production for September. Then we can fix a portion of the cause for increase in price of egg production on the failure of the birds to gain in weight. This failure to gain in weight and also increase in cost of egg production is due largely to two causes; first, the birds were not as well out of

RECORD FOR MONTH OF OCTOBER, 1906

Breed	Pen No.	No. Hens in Pen	Weighted In	Weighted Out	No. Eggs	Weight of Eggs, ozs.	Feed, Lbs		Cost Per Dozen	Average Per Hen
							Grain	Mash		
White Wyandottes.	1	12	53 1/4	54 1/4	77	153	62	38 1/2	19 1/2	6 1/4
Barred Rocks.....	2	4	27 1/2	21 1/2	11	22	31	15 1/2	26	2 1/2
Barred Rocks.....	3	12	67 1/2	69 1/2	57	108 1/2	62	43 1/2	20 1/2	4 1/4
White Rocks.....	4	12	69 1/2	73 1/2	69	136 1/2	62	43 1/2	16 1/2	5 1/2
S. C. B. Orpingtons	5	8	39 1/2	40 1/2	38	75 1/2	39	11 1/2	20 1/2	4 1/4
Black Langshans..	6	4	20 1/2	21 1/2	17	35 1/2	31	15 1/2	32 1/2	4 1/4
S. C. B. Leghorns..	7	11	32 1/2	30 1/2	34	67 1/2	46 1/2	21 1/2	1 1/2	3 1/2
S. C. W. Leghorns..	8	12	32 1/2	32 1/2	66	115 1/2	46 1/2	24 1/2	18 1/2	5 1/2
White Wyandottes.	9	8	43 1/2	40 1/2	77	148 1/2	46 1/2	17 1/2	18 1/2	9 1/2
Total .....	83	391 1/2	392 1/2	446	861 1/2	426	231	23 1/2	5 1/2	

REMARKS: The nine males made a gain of 3 1/2 lbs. During the latter part of the month, an average of 5 ounces of green cut bone was fed to all birds. The grain was composed of equal parts corn, wheat and oats. The mash, fed dry, was a mixture of five parts wheat bran, five parts shorts and one part tankage. In estimating the cost of eggs, labor was not considered. The grain was valued at 1 1-3c per pound, mash 1 1-5c, green cut bone 1 1/2c, loss or gain in flesh, 9c.

JAS. TYLER, Asst. Poultryman.

and they only increased the number two eggs. They also reduced the price of cost of production from 18 cents for September to 16 2-3 cents per dozen for October. Taking the average price of eggs on the Knoxville market, strictly fresh eggs, which was about 25 cents, it will be seen that a narrow margin of profit was left on egg production, even under the unfavorable conditions mentioned above.

The outbreak of chicken pox mentioned above was quite severe, birds being effected in all the pens.

There is no doubt but that the moult was rather late this season. Reports from many other breeders in this section say their flocks have also been slow moulting.

In our January number a discussion will be made of the ration in use in these pens, giving its analysis, etc.

Any criticisms or questions about these reports will be gladly received.

# THE BIG POULTRY SHOW

KNOXVILLE, TENN., DEC. 11-14, 1906

**A**LL aboard for Knoxville! Get your fowls ready for one of the greatest shows the South has ever witnessed. Remember all entries will positively close December 5th. No exceptions whatever to this rule. Please send a list of your entries as soon as possible.

**COMMITTEES**—The various committees, while recently making their final reports, were very enthusiastic over the glowing prospects. Everybody seemed to have caught the spirit of the occasion and were very willing to assist in every way possible.

**OUR CITY COUNCIL**—Wishing to encourage and assist so worthy an enterprise, has very willingly and generously donated the use of Market Hall, which is centrally located—near hotels and all street cars, making an ideal place for a poultry exhibit. The show will occupy the second story, size of hall about 40x200 feet with twenty-six large windows, thus affording most excellent light even on cloudy days. Those who attended our show last January will remember the many advantages this location affords the exhibitor.



F. J. MARSHALL



CHAS. McCLAVE

**OUR JUDGES** are too well known to need introduction. The mere mention of their names is enough to inspire confidence and assure success for our show—Judge F. J. Marshall, of Georgia, and Chas. McClave, of Ohio. You know the rest. You may confidently expect the best fowls to always win under these judges, regardless of ownership.

At a recent meeting of the executive committee the following committees were appointed:

**Press and Advertising Committee**—J. C. White, R. P. Williams and J. T. Oates.

**Railroad Rate Committee**—D. M. Owen, Reese V. Hicks and R. B. Ragsdale.

**Entertainment Committee**—L. B. Audigier, T. L. Bayne, W. R. Madden and H. A. Morgan.

**Transfer and Express Committee**—Joe L. Knott, C. N. Bentley, W. M. Roddy.

**PRIZES**—Our citizens and members have rallied most loyally to the support of the different committees, aiding in many ways. About \$1,000 has been contributed for advertising and prizes, and distributed in such a manner as to make it very interesting for all who wish to enter the different classes.

**THE COOPING**—Our coops are all new regulation size—never used before—painted white—perfectly sanitary—no danger of fowls contracting disease from coops. Our committee promises the public a real surprise in the way of arrangement.

**OUR SUPERINTENDENTS** are all men of high standing in the

community and of long and ripe experience in the poultry business. They know how to handle and feed show birds. Any fowls sent for exhibition purposes, or for sale will receive the same careful attention as if the owner was looking after them personally. Your presence, however, is very much desired, but do not hesitate to send your fowls with the assurance that they will receive the proper attention.



The Industrious Hen Solid Silver Cup.

**OUR PREMIUM LIST** is out and is a beauty. If you have not received a copy with full information about the big show, it is because Mr. J. T. Oates, secretary, did not have your name and address. Write today and a copy will be mailed you promptly.

**TEN THOUSAND TICKETS** have been printed and placed in the hands of the school children of our city for sale, thus assuring a very large attendance. Price of ticket 10 cents. The Association allows the school one-half the price of ticket for selling. We expect the largest attendance of any Southern show. East Tennessee leads in poultry raising and shipping and parties having stock for sale will find the big show at Knoxville a great winner when it comes to advertising for results.

**TICKETS, PLEASE**—The railroads have given us reduced rates from all points to Knoxville. Come and bring your fowls. See the biggest Southern show this season. All aboard for Knoxville.



GOLD COIN.

Buff Wyandotte Cock, winner of 1st at A. P. A. show, Cincinnati, 1906; also 3d at Cleveland and Lexington, owned by Wm. K. Lewis, Dry Ridge, Ky.

## DECEMBER POULTRY WORK

BY THE EDITOR.

**N**OVEMBER this year was colder than usual and we hope our breeders have already heeded the warnings of a coming winter and gotten their young stock safely housed. The cold rainy weather that we usually have in December is very liable to bring on colds and roup. Young stock sometimes give trouble to confine to the new roosting quarters. Usually by keeping them in the new quarters for a day and two nights, they will roost where desired.

If you have not already separated the cockerels from the pullets, when you bring your young stock into the regular roosting places is a good time to make the separation. The young cockerels, if they have been on different runs, may be inclined to fight each other for a few days. A good way is to confine them in the regular roosting house for a day or two and darken their quarters slightly so that they may become acquainted in the semi-darkness. They will do very little "scraping" under these conditions.

When you brought your stock in and put it into new quarters, you doubtless carefully examined every bird as moved. When this is done at night, it is not always satisfactory, but it is well to carefully go over each one for any overlooked or hidden defects. If you failed to make this careful inspection, do so at once. A very good way is to carry five or six birds to the house with you each night, and carefully examine them by the fireside. If not well posted on the standard requirements, have your Standard of Perfection on the table and opened at the breed you are considering. Begin at the head and try your hand at scoring. It is well to have a pencil and score-card also ready. Write down the cuts. Legband your bird if it shows sufficient merit to preserve as a breeder. Enter this legband number in a good substantially bound book, a book that you can refer to and keep for this purpose each and every year hereafter. Enter in this book the approximate score, date of hatch and ancestry, if you know it, any good strong points of the bird like, "very deep, rich colored eye," also give any extra weakness like, "eye too light," and any other special points you may note. This is useful in making proper matings later and also serves to note any changes or developments in the condition of the bird by moulting or otherwise. It is also very useful if you sell any standard-bred poultry in helping to locate any special strong points in birds that prospective customers may call for. But above all it gives you a permanent record to keep trace of the breeding and markings of the fowls.

Young birds seldom ever do their best if allowed to run with the old ones and it is even more difficult to get best results from the old stock if allowed to run with younger stock. It is damaging to both the old and young. The same rations are not exactly best suited for them. Old birds fatten much easier than the young ones and hence it is best not to feed the old ones as much fat-producing ration, especially corn, unless you wish them fattened for market or home use.

Again, the young birds will eat more green feed than old ones and will live upon a less ration of grain feeds. It is therefore a saving to have the different ages separated.

So in bringing in your young stock keep it in separate runs, if possible, from the old birds.

If your fowls have had wide range this summer you must remember that with winter here they will not be able to pick up as wide a ration of bugs, worms, etc., and you will have to give them a more generous supply of meats, etc. To get best results, give your birds a balanced ration and now is a good time to begin. Doubtless if you are located, as many of our readers are, on a farm away from a town, the question of fresh cut bone or meat is a most difficult one. If you

have a good supply of butter milk or sweet milk by feeding these in liberal quantities the use of meats can largely be done away with. If your milk supply is limited, it is necessary that you get beef scrap, beef meal, or some form of meat feed. You will find that it will be a paying investment.

During the summer birds were largely able to take care of themselves in fighting lice by hunting up a dust bath by the roadside or some other dusty place. Now that the fall rains have taken such conveniences away from them, you should supply them with dust boxes. Use boxes six to eight inches high and twenty to thirty inches each way. Place these with some dry dirt from under some house in each run.

If you expect to send any birds to the January shows, and you should send some, December is the time to get them in show room condition. It is best to select your show birds, say a month in advance of the coming show. Select several more birds than you intend to show, so if one or more birds are out of condition when the show time arrives you will have another ready to take the place. Birds for the show room should be kept up and fed for two to three weeks before the show in order to get the proper weight on them. In selecting birds, don't pick small birds and undertake to fatten them up to standard weights. You will likely lose in shape, symmetry, and typical carriage. Handle the prospective prize winners every day if possible, as thus you will get them used to handling and they will make a good appearance in the hands of not only the judges but of any prospective buyers who want to examine your birds.

### McCULLOCH'S POULTRY POINTERS

Written for The Industrious Hen by Plummer McCulloch

**A**RE you getting your share of winter eggs? What do you feed? How do you feed? When do you feed? I think corn is one of the best feeds we have, especially for a winter feed. Of course you can feed too much corn to be sure. Corn, wheat, buckwheat, oats, cracked corn and a little sunflower seed makes a good bill of fare. Feed oats or buckwheat in the morning, wheat at noon and corn at night. Or feed wheat or cracked corn in the morning, once in a while for a change. A few handfuls of sunflower seeds thrown in the litter every two or three days I think is a very good thing. I believe in plenty of exercise, but I don't want my poultry to have too much exercise. Too much is as bad as not enough. I feed all grain in a deep litter and make them scratch for it. Once in awhile I feed whole corn on the cob and let them pick it off for a change. I find it a very good plan to keep a box of bran before your fowls all the time. I think it increases egg production and at the same time keeps the flock in a very healthy condition. Oyster shells, grit, charcoal, etc., must not be forgotten and mind the water, as it is just as important as food. I think it pays to heat the water slightly in very severe weather. Keep your fowls busy, give them plenty to eat, but not too much. Let them have enough exercise, no more no less. Feed regular, and eggs will come.

The breed question seems to be a "puzzler" to some beginners. I want to say right here that if you take most any variety of fowls and care for them properly they will pay you well. They are all good. It would not do for me to tell you what variety to start with, as I would surely tell you White Plymouth Rocks.

Choose your own variety. Take the one that suits your taste and they are the ones that you will do best with.

## MATING BROWN LEGHORNS

WRITTEN FOR THE INDUSTRIOUS HEN BY W. W. KULP, PENNSYLVANIA

I HAVE been breeding the beautiful browns for twenty-one years and have come to consider them as one of the standard breeds of the earth. In the poultry world I consider them as we do bread in the provision line. Brown Leghorns will never go out of style. People like pure breeds and they like them uniform in shape and color. They can be pretty and yet not show birds and uniform in shape, too; it is a step to the good looks of the yard.

Shape can be more easily bred than color, and shape once gotten can be kept. Color may very easily get away from you. For this reason breeders have rather given color the most value. Then again a standard colored Brown Leghorn, either male or female is a very beautiful bird, that when a man or woman succeeds in getting the color very nearly right we like to see them rewarded.

Some fifteen years ago a leading Brown Leghorn breeder was asked which was the most important, color or shape, and the answer was color, and it was right. That does not mean we want ill-shaped birds, for we do not, but any one who tries to breed the male or female to standard color will soon find he or she will have full respect to the even beautiful color of the male or female when they see it. Yet this same breeder was beaten some years ago by a superior colored bird to his; his being not quite so good in color but a little better in shape, yet he kicked. We had better admire right whether on our birds or on the others.

The color of the male is brilliant red and black. Neck and back and wing bows are all to be the same red color. The off color will be, the neck will often be a shade or two lighter or may not have enough red on it, leaving a black cape. When you have this you mostly have a very good saddle in color. I think it is better to have a good neck with the color coming down to the bottom of the cape and have a saddle not quite so good than to have a black cape. But when you mate for the fully colored black centered neck and back you will be sure to get some males and females that are not dark or if you mate lighter you will get more too light, but I prefer this mating as it makes the flock look more even. In selecting the females for the male line do not take poor shape, for in scoring or judging in any way we get enough cuts without making more cuts on shape than we can help. Combs should be as good as you can breed them and we suppose the females have been bred from good males in color, for the longer they have been in line the better will be the results. See that the lobes are clean of red. The neck color will tell you the value of the bird. The center should be black but the red color should come down to the bottom of the feather. That is come around the point. When you have this kind of a neck you will have a dark back if rightly bred, but it should show penciling. Tail should be well spread.

The male mate for the female line should be the son of a winner and the grandson of a winner. It is more important that he be out of a very good hen than how he looks, although the size and shape should be good, comb small, lobes flat and clean. The hackle should have striping and the edges golden. I like the wing bows to have as little red as possible. Much red seems to breed more brick color, the enemy of good wing color. Under color of neck should be good, too.

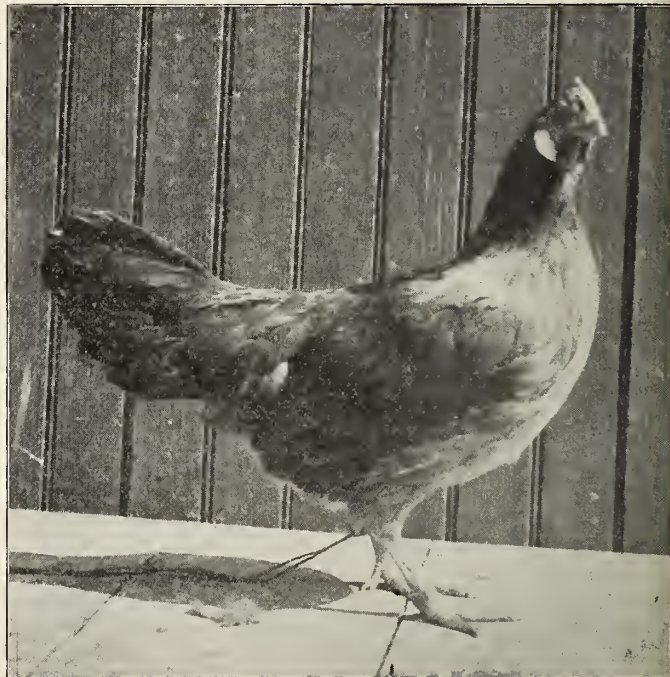
The combing of gold, red and brown in the female is one of the beauties of the show room. The old Standard read brown, penciled with light or golden brown, but the latest Standard says brown stippled with lighter brown. This reading was put in so a darker brown could win. The darker you breed the female the easier to produce a clean wing, but this I know that the golden brown is far the handsomest and when

even colored, finely penciled, will win under the very best breeder judges. I know that most of the rank and file of the Brown Leghorn breeds prefer the beautiful lighter brown.

All the winners of the Rose and most of the S. C. Browns for the last ten years at Madison Square Garden have been of the Golden Browns and they have been the best females ever bred.

My old Queen Esther was pointed out by Mr. Drevenstedt as a model in back color for the S. C. Browns and she was like a simmer of gold. She was taken for a pattern in color by Mr. Wittman, too, who afterwards bred the world-beaters.

Now, I want to touch on a subject that is not mating, but belongs right in here. It is this, no matter how well you mate



Rose Comb Brown Leghorn Hen, Winner of First at Madison Square Garden, Owned and Bred by W. W. Kulp, Pottstown, Pa.

you will have many off or not up to color, and many will be spoiled by local conditions. Anything that checks the full and rapid growth will spoil the richness of color and in the wings will cause the bird to leave out the color entirely. Many do not understand that white is but the letting out of color. To put color in feathers takes effort of the bird and when its force of life is diminished the lice, poor runs, poor feed, gapes, or anything having the same result, will cause dull color and white wings.

As a money crop, the chickens and eggs alone, in the United States, annually, is equal to, or amounts to more than the entire cotton crop of the South. If I have it right the income from the chickens in the United States for 1904 was \$600,000,000, a sum much greater than our entire cotton crop for the same year.

No meat of equal weight contains so many life giving elements as the egg.

Make the hens scratch in clean litter for every kernel they get. They need the exercise, they will not eat so fast and stuff full, then go and loaf.

## SHORT CUTS TO PROFIT

WRITTEN FOR THE INDUSTRIOUS HEN BY J. ROBERT LIVINGSTON

AS IT becomes my privilege to add to the lists of poultry plants visited in search for a better knowledge of the features that are effecting the profits, I am impressed with the fact that there is not sufficient thought given to the minimizing of labor in their establishment.

As a business the unit should and may be 2,000 birds and a competent superintendent may be able to count on that as one man's labor and at a profit at any price that has prevailed for productions within the writer's knowledge.

There is no doubt that this number or unit may be, under favorable conditions to 2,500, possibly 3,000 birds. This means that the feed account for their maintenance must be supplemented by the cost of one man, that wage being effected by local conditions.

Now, it will be quite evident to every poultryman that to be able to accomplish this that the method of housing his birds is the point which makes this possible or impossible. It is quite as impossible to expect to locate a poultry plant intended as a business, at any point picked at hazard as it would be to start a brick yard. And to establish one with a reasonable assurance of profits it is quite as necessary to give the same consideration to location for one as the other. This does not apply to the man or woman who wishes to keep 50 or 100 fowls for such profits as they may secure from that number, but those profits will be proportionately effected by a disregard for the location of their egg and broiler factory. I could mention several poultry plants at a great loss, but it is no fault of the business, but of the architect of that particular plant and were we to sit down and figure the cost and cause of the losses it would be an easy matter to put the finger on the exact causes. The birds are not at fault, it is "the man behind." For him who is just entering the business it is easier to avoid these rocks of failure than for him who has made his start, to find it false, because the moral courage required to recognize

a mistake in what has probably christened as a pet theory is considerable, and the cost to the pocket to correct this mistake is also considerable.

There is no branch of agriculture where the profits are so great as in the poultry end and there is no branch where so little advance has been made toward improvements in its management as a business as they should be. There will be another rush to get into the business as there was to the gold field in '49, because, for the few the profits will be nearly as great.

In ten years there will be as great a change in the accepted requirements of poultry as a business, as between the old hen and the incubator and the men and women who are first to recognize the necessity of conforming to these requirements will be those "in on the ground floor" and who will reap the fortunes.

The changes in the future of *fortunes* for the poultryman are only now becoming apparent when the place of these changes necessary become so, but there is no doubt whatever that in another generation the oft repeated statement that "there are no fortunes to be made with poultry" will be entirely disproven.

In this day where a ten thousand hen plant is a very fair sized "chicken yard," the time is not far distant when this will be one of the smaller ones, and the profits of the larger will also increase when we have taken hold at the right end and opened our eyes to necessities as yet recognized by but a few.

But then the fortunes made by the "cotton kings" will fade as wonders and the great American hen will prove a greater factor to wealth than we now have any idea. The interesting problem of the present moment is who will be the Rockefellers, the Armours and the Vanderbilts of the poultry?

## CHARLESTON SHOW A SUCCESS

WRITTEN FOR THE INDUSTRIOUS HEN BY JUDGE F. J. MARSHALL

THE show at Charleston, S. C., November 5th to 10th, under the auspices of the Charleston Poultry Association was a success in every sense, and seems to be well named, "The Banner Show of the South." The exhibition was held in a large store room on the busiest street in the city and all of three stories were well filled with the cream of the South, as well as some from the North. In point of numbers it was about the same as last winter. Perhaps a little larger. In point of quality I do not hesitate to say that I have never seen *more* strictly high class birds taking all the leading classes in a show of this size. It was simply tip top.

The cooping was uniform, neat and attractive with the Association's own coops. Geo. O. Brown and the writer were on hand early the first, or opening day of the show, and found everything in apple pie order for work. Judging commenced at once and was completed by noon of the second day, and within thirty minutes after the judges had finished all the prize ribbons were in place. The judging was done by comparison and seemed to be quite satisfactory. The White Rock class led in point of numbers, there being about 150 birds in the class. White Wyandottes, Barred Rocks, White Leghorns, Buff Rocks, Silver and Buff Wyandottes, followed in order named. A White Rock hen captured the Ivory Soap Silver cup for best white fowl in the show washed with this soap. This hen won second last year as a pullet, loosing first by one-

half point in the score, which goes to show that the best, as a rule, get there, when in condition. There were more than a dozen elegant cups offered at this show on different things, and there were enough good specimens to merit every one of them.

Some of the leading classes were not as large as last year, such as the Barred and Buff Rocks, Buff Orpingtons and Buff Wyandottes, but the number was made up by a great variety of breeds of the ornamental classes, bantams, etc. The show was held during the city's "gala week," and by that means secured good attendance. The officers of this association certainly know how to hold and manage a show. Secretary McCarty especially is an inveterate worker and deserves all the credit he can get.

Poultry shows of the tone, character and size of the Charleston exhibition go a long way toward the building up and fostering of the thorough-bred industry in this country. A casual observer could not well visit such an exhibition for any length of time without great danger of catching the fever, and that, too, of a very malignant type. May we see many repetitions of such shows in this good old town, and many others of similar character scattered through the South.

Be slow to anger. There is little, if anything, in letting one's temper get the better of the man.—*Ex.*

## RHODE ISLAND REDS ARE POPULAR

**W**HAT the Rhode Island Red fowls, while comparatively a new breed, are fast becoming the most popular fowl of the age, both for utility and fancy purposes, no one that is at all posted will deny. The present popularity of the Reds is not due simply to the fact that they are something new, but to their many good practical qualities, such as hardness, great winter laying qualities, early maturity, and beauty of plumage, which recommend them to everybody. The general public demands a medium sized fowl, as the largest

the fact that the raising of Reds exclusively constitutes the principal business of one entire county is pretty good evidence that the better you know them the better you will like them.

They take their name from their beautiful red plumage and I hope the leading breeders will keep to the rich cherry red and as far from the buff as possible, as it is infinitely more beautiful, although harder to breed; but when you get it just right there is no color in the show room to compare with it.

Life is too short to use the full name on all occasions



No. 2



No. 1.



No. 3

breeds are laying in many respects; but the breeds known as the American class are what the practical poultry man generally selects from when he starts in the business on a large scale. I had not raised Reds very long before I realized that this breed was far superior to any of the other twenty varieties of popular breeds that I had raised, and I decided I would have a set of photographs taken of the different ages to prove to others their many good qualities.

My daily mail shows that the country is full of people who want to know more about this breed, so I will try to make my description just as forceful and clear as possible,

so I will hereafter speak of them as Single Comb and Rose Comb Reds.

Cut No. 1 represents a Red chick that has just passed the dangerous point of indigestion that kills so many that are not properly fed. I know of no breed that possesses more vitality right from the shell than a well bred Red and if given half a chance he will live.

Cut No. 2 represents the smallest size of broiler on the market and even at this age they are plump and make as delicious a morsel as any epicure would care to eat. The chicks feather out comparatively slowly until they are about two months old so that most of the food consumed goes to-



No. 4



No. 5.

still confining myself strictly to facts and not exaggerating one particle, as a true fancier is liable to do when talking about his favorite breed of fowls.

The accompanying pictures were taken on the De Graff poultry farm, Amsterdam, N. Y., and illustrate typical specimens of the breed at each age, as many of them afterwards won first prizes and club ribbons for shape and color at our largest shows.

Rhode Island Reds were first bred in Rhode Island and

wards making flesh, bone and muscle, instead of feathers, like some breeds that feather out so young that many die from the severe strain on their young systems.

Cut No. 3 represents the most important age of the cockerels from a commercial point of view, as a 2 lb. broiler, especially if plump and early hatched, is worth more at this age than he ever will be afterwards when feed and care are considered. No cockerels are allowed to live on this farm unless they show signs of scoring over 90 points and then they

are given the best of care till fully developed, for breeding purposes. The oblong body which the standard requires, shows very prominently in cuts No. 3 and 4 and I recently ate a half grown cockerel that had a keel of white meat 8 1-8 inches long.

Cut No. 4 and 5 are the roaster age and they appear awkward, as they are getting their second feathers and growing so fast that they do not have much style about them; still their rapid growth, well shaped bodies, long, keen bones and plump, wide breasts make them a very desirable table fowl at any age, and they always appear to best advantage when dressed in the market, with their yellow skin and legs.



No. 6.

Cut No. 6 represents the cockerel age when he just realizes he is the head of a fine pen of pullets and he thinks he is king of all he surveys. Still a flock of half grown cockerels can be yarded together better than any other breed I have ever handled, which is a very important point when they are raised in large numbers. Both cockerels and pullets mature early and when fully developed I know of no bird in poultrydom that can equal its combination of utility and beauty.



No. 7

Cut No. 7 shows a finely developed pullet just as she is about to lay her first egg and if given the proper material she will continue to lay regularly all winter.

Cut No. 8 is the crowning feature of the whole family, the old hen that does not need to be killed as soon as she is over one year old because she will not "fat up behind" like many of the larger breeds, but will continue to lay larger dark brown

eggs each year till she is four or five years old, as many old breeders will testify.

No warm houses are required for this breed and in fact they do better in curtain front fresh air houses, as they are abundantly supplied with feathers to protect them, as anyone that has ever had occasion to try and wash one will testify. The only valid objection that can be raised against the Reds is the fact that some strains do not breed true to color but the fine specimens that have been shown lately have surprised the



No. 8

knockers by their high quality, and one important thing to consider is that if the females do not breed true to color they can be depended upon to breed a good layer which is most important to the majority of breeders.

The many good points of this breed are rapidly pushing them to the front in spite of the united efforts of the old line breeders to keep down what they know will be a strong rival for public approval, so I will say no more in their defense as I know they are perfectly able to take care of themselves at any season of the year.—Edward T. DeGraff.

At Richmond, Va., there is a firm that makes a business of fattening geese. The past winter they fatted 10,000. The fattening pens hold 2,000 at a time and when these are ready for market enough have been collected to take their places in the pens. This firm fattens more geese than any other in the South.

Try having your school boys and girls draw maps of your farm and plat the fields, orchard, meadows, gardens, etc. It will be excellent practice for them, and, unless you have tried it, you have no idea what a convenience it will be to you in planning your crops and laying out your season's work.

Don't forget the oyster shell and grit pans. Have them full all the time. They are the hen's teeth and without them we would soon have a bad case of indigestion on our hands. Charcoal should ever be on the menu. It is a regulator and a tonic for our pets.

If you are going to feed a mash this winter, do not give it to your birds in the form of soup. Make it a crumbly mass—just damp enough to stick together.

At the expense of a few cents and a few minutes time each day a good sized flock of fowls can be supplied with all the protein they need if a person has a good bone cutter.



DEVOTED TO EVERY INTEREST OF THE  
**Poultryman, Live Stock Breeder and Small Farmer**  
 Entered at the Knoxville Postoffice as second-class matter.

REESE V. HICKS, . . . . . Editor

**Subscriptions 50c a Year in Advance**

ADDRESS ALL CORRESPONDENCE TO  
**The Industrious Hen Company**  
 617 GAY STREET, KNOXVILLE, TENN.

Vol. 3

DECEMBER, 1906

No. 7

THE INDUSTRIOUS HEN is issued promptly on the first of each month. It furnishes the latest and most authoritative information obtainable on all matters relating to the Poultry industry, Live Stock breeding and intensive farming. Contributions that are practical and pithy are solicited. The Editor is not responsible and does not always endorse the opinions as expressed by his contributors.

Subscribers desiring a change in address will please give the old as well as the new postoffice.

#### ADVERTISING RATES

Furnished on application. The value of THE INDUSTRIOUS HEN as an advertising medium is unquestioned. The character of the advertisements now in its columns, and the number of them, tell the whole story. Circulation considered, it is the cheapest Poultry journal in the United States to advertise in. Advertisements, to insure insertions in the issue of any month, should reach this office

**Not later than the 25th of the month preceding.**

**BREEDERS' CARDS**—Rate beginning with November, 1906, issue, 2½ cents a word each month for one, two or three insertions, 2 cents a word each month for four or more insertions. A 25 word card will be run six months for \$2.50. Numbers and initials count as words. Please count the words correctly and avoid delay. We keep no books with this department and cash must invariably accompany the order.

THE INDUSTRIOUS HEN reserves the right to reject any advertisement for cause.

A glance at the list of show dates will convince you that it will be a physical impossibility for the editor of THE INDUSTRIOUS HEN to personally attend all the Southern shows even, owing to a conflict of dates. Yet he hopes to attend the majority of them and shall be pleased to meet old friends and make new ones among the poultry folks. You will see THE INDUSTRIOUS HEN booth at all the shows, for where the editor cannot be a representative will be sent and you are cordially invited to call and make yourself at home.

Many of our subscribers are taking advantage of our great clubbing offers, and are getting their year's reading while they have the opportunity. This is the most interesting and instructive season to read a poultry paper, for the reason that the laying, incubating and breeding seasons are near at hand, and it behooves every lover of poultry to post himself as thoroughly as possible on all the ins and outs and whys and wherefores of this great industry. Our clubbing propositions are very attractive and offer to our readers a variety of reading such as is seldom gotten together under one proposition.

Secretary W. F. Maury writes us that the Chattanooga breeders have decided not to hold their annual show December 12 to 14, owing to inability to secure a suitable show room. Chattanooga has some live breeders and it will be generally regretted that the show had to be abandoned this year. Two years ago one of the best displays of birds in the South was exhibited at Chattanooga. Located so favorably to three states as Chattanooga is, there should be a first class show each year, and we hope its progressive breeders will come next year with a strong bid for the best show in the South.

A new exchange on our desk is the *Dixie Breeder*, which takes the place of the *Dixie Game Fowl*. The wayside of poultry journalism is already lined with little green mounds of the departed, but still we bid the new comer welcome. Each poultry journal has a special field that it can cultivate better than any other journal, and if that field will only support the journal that caters to its special interests, good and well; if not, another green mound. THE INDUSTRIOUS HEN will exercise fostering care over the new comer and if it will follow in her wake there will be an abundance to feed all.

A circular letter is being sent out to the poultry departments of the various State Experiment Stations suggesting the organization of the instructors and investigators in poultry husbandry. As the letter well states, the field of poultry husbandry is a comparatively new one, and much can be gained by those engaged in the work holding an annual meeting to exchange views and experiences. It is suggested that the meetings be held at some event of special interest to poultrymen, like some leading show. Prof. James E. Rice, of Cornell, is the prime mover in the proposed organization.

The editor of THE INDUSTRIOUS HEN will attend the Madison Square, N. Y., show the first week in January and go from there to the annual meeting of the American Poultry Association at Auburn, N. Y., Jan. 10. The Madison Square show is the leading display of poultry in the world and this year promises to excel former shows even. THE INDUSTRIOUS HEN will have a booth and her readers and patrons, both present and prospective, are cordially invited to make headquarters with us. Pencil and note book will be used freely and our readers given the benefit of such observations as seem profitable to promoting poultry culture and poultry shows.

Volume 1, No. 1, of the *U. T. Farmer*, published by the Agricultural Club of the University of Tennessee, is the latest product of the Agricultural Experiment Station U. T. of this institution. L. R. Neel is the editor-in-chief; Andrew Jackson, associate editor; Herman Work, business manager; V. S. Bright, assistant business manager. The publication is full of most excellent articles from these young men, who write from the knowledge and experience they have received on the farm at the Experiment Station. The *U. T. Farmer* is published monthly at \$1 per year and every farmer in the State of Tennessee would be benefited by reading it. THE INDUSTRIOUS HEN will be glad to receive subscriptions for it. It is a monthly publication.

Announcements have been made of the Winter or Shorter Course in Agriculture at the University of Tennessee. There will be two weeks of special lectures on poultry, methods, appliances, etc., and the last week in January and first in February are the ones selected. Arrangements are being perfected whereby the services of some of the best known experts in the various lines will be secured. It is hoped to have a specialist of national reputation on the various breeds, one on judging and scoring, one on practical work in the poultry yard, and one on artificial incubation and brooding. These lectures will be the most comprehensive attempted yet by any agricultural department of our Southern Universities. Full announcement will be made in our January issue. Watch for it and make your arrangements to come and take these lectures.

Every breeder of poultry, no matter on how small a scale, should make it a point to attend one or more of the coming shows, and also take along a few of his choice birds. You have had a hard year's work, perhaps, and to get out and mingle with other folks at a good show will be beneficial to your feelings. If you will keep your eyes and ears open, you can learn something of value for next year. The farmers who have only a few chickens on the farm and the women folks attend to them, especially should take in the shows, and what is more important, bring along those same women folks that are the mainstay of your best profit-paying farm products, the poultry. Give the wife and daughter a chance to see the fine birds. It will help open your heart and it may be those women folks, with the help of THE INDUSTRIOUS HEN can persuade you to build a new hen house, get a grade better poultry, and let the hired hand have a half day once a week to clean up and help generally around the chicken run.

At the Auburn, N. Y., meeting of the A. P. A., Jan. 10, that body will decide for itself whether the plan of reorganization outlined for it will be adopted and the association be renewed in vigor or go on in its old way with only a few hundred members where it should have thousands. The report of the committee was published in a synopsis form in the September number of THE INDUSTRIOUS HEN, and this synopsis embodied the essential features of the proposed changes, so that we do not deem it necessary to publish the entire report. The A. P. A. deserves much credit for its fostering care over the poultry industry all these years, but it is plain to every one that it must be put upon a more representative basis than at present. This is exactly what the report of the reorganization committee proposes to do. There have been rumors of trouble and actual trouble enough growing out of bickerings inside the A. P. A. These should be ended by adopting the report, with perhaps some modifications, and giving the great bulk of American countrymen a say-so in the affairs of the A. P. A.

During this show season it shall be the policy of THE INDUSTRIOUS HEN in publishing the list of winnings at the various shows to publish only those winners who are advertisers or subscribers to THE INDUSTRIOUS HEN. Our reasons for doing this are several but the main ones may be stated as, first, justice to those who are our advertisers, and, second, justice to ourselves in a financial way. Our advertisers do not pay their money to this paper simply to see their names in print; it is a business proposition with them; they want to sell poultry and eggs. Prize winnings at a show are fine advertising in the show room, and to publish these winnings in a poultry journal is far better advertising than any show room talk. It is not good business policy to take the money of an advertiser and run his add and then on the next page run free a list of show winnings, among which is an item showing that very advertiser lost all firsts to a man who never spends a cent of money for advertising. That is where the injustice to the publisher of a poultry journal comes in when he runs the winnings of a non-advertiser. He is knocking the very people who enable him to exist. The ancients handed down a saying that the gods helped those who helped themselves, and it is especially true in poultrydom. If you want your winnings in THE INDUSTRIOUS HEN, advertise.

An article on the digestibility of fish and poultry by Prof. R. D. Milner, of the Storrs Agricultural Experiment Station, Storrs, Conn., is very interesting to those who take an interest in such important subjects, a bulletin of which can be had free of cost by addressing the station as above. Prof. Milner says that "for the

proper estimation of the nutritive value of any food material, it is not sufficient to consider merely its percentage composition; that is, the amount of the different nutritive ingredients it contains. It is necessary to consider also its digestibility, or the amount of each ingredient that will be digested and absorbed, and so made of use to the body for the purpose of nutrition—the building of tissue and the yielding of energy. Thus, two foods might be very much alike in chemical composition and yet, because of differences in digestibility, differ widely in actual nutritive value. This is known to be the case with graham and white flours. If these two grades of flour are milled from the same lot of wheat, their composition is found to be much the same, there being a little more protein in the graham than the white flour. Bread made from the white flour, however, is much more completely digested than that from the graham flour. As a result the body actually obtains more nourishment from a given quantity of white flour than from the same quantity of graham flour. As regards the digestibility of poultry and fish but little is known." A study of the bulletin tables, however, makes one content to live on either poultry or fish diet, the nutritive values of which do not seem to differ much one with the other.

The Southern poultrymen are discussing the annual meeting of the Southern Poultry Association, which meets with the Tennessee State Show at Nashville, Jan. 14-18, 1907. The question is frequently asked, "What are we going to do with the Southern Association if the A. P. A. forms a branch in the South?" This question is quite a pertinent one, now that the A. P. A. holds out an olive branch and proposes to allow the organization of branch associations. There is no denying that the A. P. A. is making a strong bid for peace, harmony and union under and in one strong central association of all the poultry interests in the land. It is also true that the remedies proposed, which will likely be adopted by the Auburn meeting, will make a representative association out of the A. P. A., something it has not been heretofore. There is a strong sentiment all over the South that we should join hands from the South with our brethren over the border and establish the Southern Association as a branch of the A. P. A. The Southern Association has perhaps not accomplished quite as much the first year as hoped for, but that was no fault of the officers, especially President T. J. McCarty and Secretary J. A. Murkin, Jr. They have been diligent in their efforts and have made good progress, when the field and circumstances are considered. The Association has been the means of advancing the cause and has served to arouse a more widespread interest in some good practical organization for upbuilding the poultry industry throughout the South. That it has already accomplished good no one can gainsay. If it comes to a question of abandoning the Southern Association and falling back into the A. P. A. under the old or present plan of organization, then it is undoubtedly best to continue the Southern Association. The real question now is should the Southern be turned into a branch of the A. P. A. if the Auburn meeting adopts the proposed changes. In order to either continue the Southern Association or turn it into a branch of the A. P. A., it will be necessary to continue the Association at the Nashville meeting at least until it can be known what the action of the meeting at Auburn is. Then we think our Southern breeders should join hands and meet at Nashville and discuss and plan the future of the Southern Association. If the consensus of opinion at Nashville is that we should join hands and enter the A. P. A. as a branch, in the event the proposed changes are adopted by the Auburn meeting, then that can be settled by suitable resolution. If it is decided that the Southern Association shall proceed to hoe its own row alone, then let us buckle down to business and make the welkin ring with Southern Association.

#### Attendance At the Show.

#### Auburn Meeting of A. P. A.

#### Publish Winnings Of Advertisers

#### Fish and Poultry.

## PREPARING FOR THE SHOW ROOM

**H**E who has given the minutest care to his exhibition stock from the time they were hatched until the present must be accredited with keen foresight. The training and special care of the birds must not be neglected until the time for the show is near at hand. It should begin when the chicks are hatched—and going still further back, we might say that it should have begun for the several preceding generations. We state this with the understanding that we are diligently trying to avoid saying anything that is in the least discouraging to you, reader; if you know that you have neglected this in a measure, do not let pass this season's opportunities; put your best efforts forth with the stock now available and determine to be in a better position another year.

The amateur will not find it the easiest task in the business to make proper selection of the stock which he must depend upon to win him honors. He should prepare himself by studying assiduously the requirements of the American Standard of Perfection, the authorized guide for judges in awarding premiums. All information that he can gain in one way and another he should turn to some value. It is plainly evident that birds for exhibition have to undergo considerable physical strain, therefore all specimens should have vigor of constitution; they should all be in perfect health. If your birds belong to a class in which weight is one of the first considerations, take those birds of large size which promise to come up to the standard weight when properly conditioned. Do not select a small, under-sized specimen and endeavor to bring it up to weight by putting on excessive fat; the results will in more than one respect be unsatisfactory. There is no detail which in selecting show specimens can be overlooked; defects sometimes almost indiscernible will throw a bird out of the competition. All these things must be watched against. If you do not consider yourself capable of passing judgment on the fowls, obtain the services of some one who knows them well.

Suitable coops should be in readiness for the stock selected, each bird being given a separate one. By all means do not crowd your birds into small coops. Have them of a reasonably large size—six to eight feet floor space and high enough that the fowls can not strike their heads and combs against the top. Have everything arranged as conveniently as possible. Place the coop in a poultry building, a well lighted, open-front scratching shed preferred, along the side of a wall. Arrange so that a light may be had in the house at night, as you will probably need to do some of the work in the evening. Into the coops put a quantity of straw, cut into short lengths preferably, excepting for feather legged birds, in which case the bottom of coop should be covered with sand. The coops should be cleaned twice a week and after the stock is washed, which is several days before the show, they should be cleaned daily.

To properly condition the birds they should be placed in these coops about two weeks before the show. This will give them plenty of time to become accustomed to their new surroundings and all the work necessary can be done in that time. When around your birds, make no undue noises that might frighten them. If they are naturally wild, they must be worked with to overcome this. When feeding them, approach as closely as possible and stroke them gently. You will gradually gain their confidence and they will become perfectly tame.

Training is quite important in preparing the birds. Typical carriage or symmetry is one of the chief requirements of fine birds, and the training will induce them to assume a position which will show the specimens off to best advantage. It takes time and patience to train the fowls properly, but the results

fully justify it. After some of the fear has gradually worn away from the bird, remove it from the coop and place on a stand. By gently stroking the bird under the throat it can readily be made to assume something near the desired carriage. There are many means by which the birds may be taught to stand correctly, and the ingenious fancier will make good use of those which may be suggested to him.

It takes an infinitely greater amount of work to properly fit white birds for the exhibition than it does the partially colored ones. In addition to all the other work, they will need to be given thorough washings to make them "as white as the driven snow." This is always an aggravating and patience-trying task, and right here frequently starts the fancier's discouragement.

From the time the birds are washed until they are in the show room you should give them your closest attention. In every way try and prevent them from soiling their plumage. Do not feed a mash at this time—give them hard grains. When sending them to the exhibition be sure and start them so that they will arrive at their destination in time. Have the sides of the shipping coops inclosed and the top slatted. Watch your charges from the time they are started on their journey until they are safely home again. At our large exhibitions with so many fowls entered, there are very likely to be confusions, and it is best to take unusual precaution with their identification. On the shipping coop have a card bearing your name and address, the number of fowls sent in coop, leg number of each, etc. See that your entries are properly made.

The size of exhibit you make will be governed by the number of extra fine specimens you have the time you can give to their care, and the confidence you have in their quality. When conditions permit, it is the best to make a large exhibit, for several reasons. If you have a goodly number you will have a better opportunity of selling some of them, provided you wish to do so. It will make a better impression on those who may in the future be your customers.—*R. H. Jones, in Commercial Poultry.*

Try to please rather than try to displease. Say a good word for the other fellow when he deserves it, and thus promote interest and helpful influence.—*Ex.*



Master Howard King Feeding S. C. W. Leg-horns in the yards of W. S. King, Lonoke, Ark.



Home of the World's Best White Wyandottes. J. C. Fishel & Son, Hope, Ind.

## RHODE ISLAND REDS—THE IDEAL FOWL

**A**BOUT the hardest, and in fact the most important thing, that any breeder has to decide, is what breed he will adopt, and if he is wise he will confine himself to one breed, and breed that as near to perfection as possible.

The Reds, being hardy and very vigorous, their eggs will hatch a large percentage of healthy chicks at any season of the year, and I know of no other breed of fowls that the young chicks seem to be so capable of hustling for themselves as in well bred Reds. They do not waste their energy in growing feathers when young, but the food consumed goes towards making flesh, bone and muscle, and not until over two months old

color from head to tail coverts as possible to breed, with tail feathers and part of wing feathers mostly black. The males should have an indescribable brilliant, lustrous red all over that has to be seen to be appreciated, and when you get them just right there is no fowl in poultrydom to compare with this combination of beauty and utility. The breast and all lower soft feathers should be of a rich, dark bayish red color, very similar to the surface color of the hens, and be the same color right to the skin. Over the back and wings there should be a darker red shade that harmonizes in all sections, and not have the back and wing bows a mahogany red, while the hackle and tail hackle are a straw color. The main tail feathers should be a clear black, which sets off the other colors to perfection, mak-



A Pen of Single Comb Rhode Island Reds from the DeGraff Poultry Farm, Amsterdam, N. Y.

do they get a full set of feathers, so that by two months, with good care and proper feeding, you have a delicious broiler, that will weigh about two pounds, and have the meat where it will be most appreciated by the epicure that is willing to pay any price for the best the land affords.

When they reach the age of three and four-months old they make fine roasters, and in fact at any age, their long, plump bodies, wide breasts, with yellow skin and legs, make one of the finest table fowls to be had. The pullets mature very early, and cases of pullet laying at five months old are not rare, while the cockerels do not become troublesome until quite well developed, and even then if yarded by themselves they cause less trouble than any breed I ever handled.

The desirable color in females is to have as rich dark bay

ing the breed one of the most interesting for the fancier, but their stronghold is with the practical poultry man that wants a fowl that will lay during the winter weather, when eggs are high, and one whose chicks can be quickly grown, and the cockerels disposed of at an early age to advantage. One that when the fowls are past their usefulness he can get something for at the market, and I claim that this breed, from my experience, comes nearer to doing all these than any that I have ever handled.

Give a properly matured flock of Reds a curtain-front house with protected roosting space, and let them exercise for their feed, and I will leave it to the fowls to prove all that I have claimed for them and to your entire satisfaction.—Edward T. DeGraff.



DeGraff Poultry Farm, Amsterdam, N. Y.

DE GRAFF'S POULTRY FARM  
AMSTERDAM, N. Y.  
STOCK & EGGS FOR SALE  
PLEASE SEND FOR MY CATALOGUE  
BEST RHODE ISLAND REDS IN AMERICA  
WHITE LEGHORNS & BLACK MINORCAS

## ORCHARDS AND POULTRY

WRITTEN FOR THE INDUSTRIOUS HEN BY PROF. J. R. PAYNE

**T**HE Mountain section of East Tennessee, when the waters of the Holston, Watauga, Nolachucky and other streams furnish well watered valleys for small farming, should make an ideal location for commercial orchards and well ordered poultry plants.

Neither well kept orchards nor very efficient poultry keeping are to be found in connection with the usual old-time farming. Wheat, corn, oats and hay as standard crops, for the income of the farmer and the living of the family, take the attention of the farmer and such of his help as can be used during the season of active farm work. So it happens that orchards, poultry or any other special line of industry must have a subordinate place on the farm. If some of the 100 acre farms could be divided and the smaller areas used for peach, apple and cherry orchards in connection with the systematic and up-to-date poultry stock there could easily be established good paying farms with comfortable country homes.

As to "orchards" there are very few which enable the owner to have fruit to sell. In some cases a scattering lot of peach and apple trees along fence rows or about the house and barn constitute the supply for many farms. A separate enclosure excluding stock is seldom found and young trees are in great danger of destruction before the time for fruit bearing. Then it may be noted that apple trees bearing winter keeping apples are not abundant, the farmers being content with early ripening varieties which supply the family with summer fruit. These are indeed very needful and may be sent to a near market with good returns, but varieties like the Winesap, for winter use, should be more carefully cultivated. If varieties after some years should seem to ripen easier then the selection of others should be made and added to the orchard. Peaches ripening early or late can be readily sold in the country and smaller towns at good prices. The peach and cherry fruits are much neglected by a majority of farmers and while there are many localities where the late

spring frosts may be escaped these valuable fruits are not cared for, so as to realize the best results.

As to poultry in the orchard, up to the time of ripe apples, there could be very little objection, but when apples suitable for use begin to fall it would be well to shut out the chicks until the fruit could be gathered. It is quite true that stock poultry with eggs for hatching is the only real plan of good profit. The ordinary farmer who sells eggs to the country merchant may get a scant return for his labor, with chickens of mixed varieties, but his income is small compared to the poultryman who cultivates a special strain and sells eggs and choice birds to his neighbors and other patrons. The country poultryman is much needed to improve the methods and stock of birds on the farms where orcharding, market gardening or any branch of intensive farming is to be combined with poultry raising.

Mr. H. P. Gould, assistant Pomologist of the United State Department of Agriculture, recently made a trip of inspection of orchards in East Tennessee, stopping at places where there were observers, making reports to the department. He was pleased with the outlook for the cultivation of fruits with reference to commercial uses and said the chief difficulty was the late frosts in the spring, about the time that the fruit trees were in bloom. If all farmers who care to have orchards will make careful observations of the effect of frost on certain locations and make their plantings of fruit trees on those places least liable to frost-killing some advantage may be gained. It is not certain that the late frost in the spring, so destructive to fruit crops in East Tennessee will continue, as in the memory of the older citizens a crop of apples seldom failed from year to year. Then if we cultivate the most valuable kinds, a crop once in three or four years will be worth the labor and care bestowed. Small fruits may be added cheaply and be a source of revenue to the careful farmer. Small beginnings, where the capital is limited, may result in larger results if wise management can be used.

## THE BUSINESS STANDPOINT OF ADVERTISING IN POULTRY JOURNALS

WRITTEN FOR THE INDUSTRIOUS HEN BY B. S. HORNE, VIRGINIA

**F**OLLOWING up an article on "Advertising" in the October HEN, there are some things to be considered from a business standpoint.

The greatest of these considerations is the appearance of the papers from the 15th to the 25th and in some cases the last day of the month of issue.

No matter how large the circulation, or even the amount of business it brings to advertisers in general, this one fact lessens its value as a medium for advertising. For instance, if you wish to run a "special" for Christmas, or any other occasion and the paper appears the 20th of that month, what chance has the advertiser to make a sale before the "special" is a thing of the past. The general reader is not looking for such ads. in the November issues.

Poultry papers are not a good advertising medium from a business standpoint and never will be until they decide to make their appearance promptly the first of the month. Other monthly magazines come out on time, so why can't the poultry editors keep in line. It would undoubtedly increase their circulation and advertising accounts. There is a good deal of dead advertising carried and I think this lateness is the main cause. Advertisers do not see their ad. before the forms close

for the next month or if they do there is no time to make a change, so they put it off for another month. There may be very good reasons for the delay but it would be a great benefit to every one if this could be improved. I know that large concerns in all cities give the preference for ads. in weeklies and monthlies to those making their appearance promptly, as they must change their ad. each month and have that month to sell that special line of goods, not five or ten days of it. Subscribers in recommending a paper to their friends will always tell them to take the one first out and as a rule that one is the best in every respect. I don't want to be considered unreasonable in this, and if wrong will be glad to have it pointed out to me. One more point. There should be more discussion in the poultry journals as to methods, etc. If the papers appear promptly they can be read and the writer jumped on, if necessary, in the next issue, which will keep things going. As it is now, a month must intervene for an answer and interest wanes. The "New Year" is almost with us and it would be a good time to get the January numbers of the poultry journals in the mail on January 1st and if there is any way to accomplish it, let us have it. With malice to none, etc.

## WONDERFUL WHITE WYANDOTTE POULTRY

WRITTEN FOR THE INDUSTRIOUS HEN BY H. P. RANKIN, HARTINGTON, NEB.



WITH all that has been said and written about White Wyandottes and with all the prominence of this grand variety of fowls which is doing such a great good work to help push the old barnyard mongrel out of existence, still the public and a large number of breeders, fanciers and poultry enthusiasts do not realize how and why this great and lasting popularity came about.

Without fear of authoritative or successful contradiction it is safe to say that no one variety of fowl in all the world today surpasses them as an all round, general purpose, utility, profit-paying chicken, and they have very few equals as ornaments for the show room or lawn when bred in their purity by our most progressive American breeders by the latest and most advanced American systems.

But with all the desirable qualities which the White Wyandotte possesses, would they be where they are today in America if they were not purely an American product? I can hear all true Americans answering with me as with one voice, "No, never." Like the American citizen himself, who is the result of a mixture of Dutch, German, French, English, Irish, Scotch and what not, the acknowledged leader of all peoples, master of all trades, a specialist in any, so our American varieties



White Wyandotte; H. P. Rankin, Hartington, Nebr.

of chickens, and especially "America's Big Four," which includes the Barred, White and Buff Plymouth Rocks and White Wyandottes, have been found by actual test and experience by our Government Experiment stations, egg farmers, market poultrymen and life long fanciers to have no superiors, if any equals, in producing large quantities of eggs, extra choice, sweet-meated, yellow handsome and finely feathered show specimens that are interesting, pleasing and delightful to the eyes of all legged table poultry or graceful, who admire the beautiful.

It is a fact that the White Wyandottes have been blessed with a highly progressive Club of live and active members, a most worthy, original and capable secretary, besides its many other pushing, sincere and influential officers, but these facts alone would never in the world in such a live, progressive country as America and in such a wide awake day and age of the world, put a variety of poultry at the very top and into such lasting prominence and popularity as that of these beautiful birds if they did not pay the profit by bounteously filling the egg basket, the dinner pail and the world's bread basket with superb quality.

White Wyandottes, as they are bred today by our most progressive American breeders are fast approaching the perfect standard at which we all are aiming. The creamy, brassy and flecked plumage is rapidly giving place to pure white quills, snow white feathers, and good combs are the rule rather than the exception, while pearl or glassy eyes have been replaced by the red or bright bay, white or part white ear lobes to the pure scarlet, red and green or colorless legs to the beautiful yellow so much admired and sought after in both our show rooms and market.

Fanciers, breeders, poultry experts and even farmers are fast learning that naturally yellow legged fowls are not inclined to throw or breed green legged birds, and this fact, together with the knowledge that green legged birds can be sold for nothing but cheap utility stock, that they are graded low and discounted on the market, while the buyers of fancy table poultry are gradually becoming more and more suspicious of any but first class stock, has created an even greater demand for the yellow leg.

Of course much leg coloring depends upon the houses, runs, foods, conditions, etc., furnished the growing chicks and the breeding stock, but it is also true that the yellow leg of the White Wyandotte is one of its strongest points for favor, not only as a work of beauty, but as a sure proof of stamina.

Thus we have today in our bird of curves, not only a fowl that is beautiful to the eye on the green lawn or well lighted show room, but one that will fill the egg basket as full as the fullest and at the same time produce as much of the very finest and choicest poultry meat at as little, if not less, cost than any other breed in existence.

The writer does not make these claims to boost or boom the White Wyandotte, neither is it his desire to exaggerate or make one over statement. Their march is steadily onward, as it ever will be, for they were produced by Americans for Americans to meet our American demands.

My object in writing and giving these few lines to the public is that I may perhaps help some beginner, amateur, or possibly someone who has made a mistake and chosen a variety that has proven unprofitable or unsatisfactory, to select one that will bring them the desired results both now and ever afterward and without fear or favor. For such a purpose I can heartily recommend the White Wyandotte variety, for long will they continue to represent a type and a large portion of the much talked of "Better American Poultry and More of It" in our land.

The hen house should be repaired before the storms of winter come on. If it has cracks cover them, and also line with paper on inside, if needed, during the winter. Avoid roup by keeping the fowls well protected from the storms of winter.

If you want eggs in winter, see to it that your fowls are properly fed and watered, and that they are comfortably provided with scratching room, also with good dust bath, and on stormy days, days when snow is on, etc., do not allow them to go out. But give them comfort within.—*Ex.*

It is well known, though less well known than it should be, that chicks thrive wonderfully on plowed ground, and one well known poultryman plows up alternate strips of his chick range so that the young stock can have their choice of either fresh ground or grass ground. He insists that the youngsters spend most of their time on the plowed ground.—*Ex.*

A supply of pepper pods won't be a bad thing for winter. Boil them in with wheat, oats, mash, etc., and feed now and then. Salted bacon is a treat to confined hens in winter—a little now and then, though expensive, will pay in egg results, and healthy fowl. Feed meats now and then. Salty bacon is said to be fine, tending to check the feather plucking.—*Ex.*

## A SCIENTIFIC POULTRY FARM



THE possibilities of poultry farming in Tidewater Virginia as an industry easily to be developed by men of insight and industry was admirably exemplified in the fine success of one on the farm of Captain John L. Roper, managed by Charles Ainge.

Mr. Ainge's success and the methods by which he arrived at it is a matter of intense interest.

That the poultry industry is a great one is shown by these statistics from "Success," which styles it "Uncle Sam's Largest Industry." In the year of 1905, the yield from the various products was as follows:

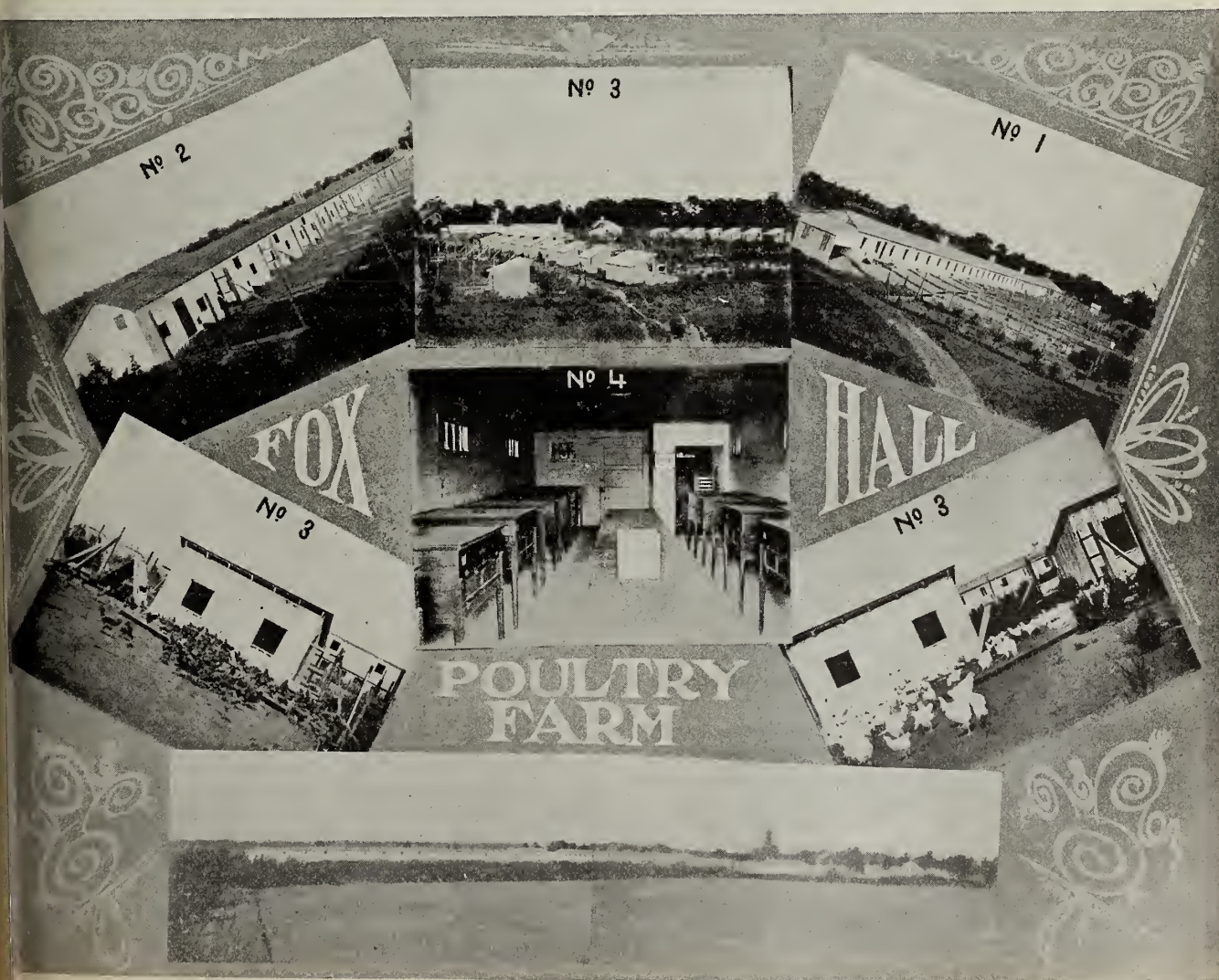
Poultry and eggs .....	\$280,000,000
Gold, silver and sheep wool .....	272,434,315
Cotton .....	229,000,000
Hogs .....	186,529,035
Oats .....	78,984,900
Potatoes .....	75,000,000
Tobacco .....	35,579,925

Captain John L. Roper's modern poultry farm is a chicken paradise, where only scientific methods are used in breeding and growing the stock. It is not far from the city of Norfolk

and was started last September by Mr. Charles Ainge, formerly of New York State, who has had over twenty years' experience with the largest paying poultry plants in New York, Pennsylvania, New Jersey, Maine and California. Mr. Ainge has stocked the Fox Hall Poultry Farm, by which name Captain Roper's place is known, with the best bred poultry that can be found in the United States.

Some of the stock imported and 50 per cent. of them are now laying. There are six hundred standard-bred hens, and they appear as healthy as it is possible for hens to be. They are kept in pens, fifteen in number, twenty feet by one hundred and fifty feet, with five or six roosters in each pen. The breeding house is three hundred feet long by twenty feet wide and adjoins a cook and feed house, thirty feet by thirty feet. In the latter are kept all the various kinds of feed, in separate bins, and it is in this house that the mash for the chickens is cooked. Then there is a steam-heated brooder house, which accommodates three thousand little chickens. The temperature under the hovers in which the little ones stay for the first few days is from 90 to 95 degrees, while the temperature in the room is from 75 to 80 degrees. There are twenty-six colony houses, with yards 20 x 150 feet, and each of these houses will accommodate from fifty to seventy-five chickens when they are taken from the brooder house.

A trip to the Fox Hall Poultry Farm will furnish interest



No. 1.—Breeding House, 20x350 feet. No. 2.—Laying House 20x350 feet. No. 3.—Colony House, 30x30 feet. No. 4.—Incubator Cellar.

for an afternoon. Two hundred and fifty acres of rich, fertile soil are set aside for the poultry.

The first house you enter on reaching the farm is the incubator cellar. In this there are twelve incubators, with a capacity of hatching 360 eggs each. In the egg room eggs are stored in trays in which they are securely held by small wire grips. They are turned over daily and in this way can be kept fresh for a month. As an expert, Mr. Ainge segregates the perfect eggs from those that are deformed by the means of an X-Ray, and the best are placed in the incubators, from which they are hatched in about twenty-one days.

They are then transferred to the brooder house and for the first one or two days are kept under hovers lined with soft flannel. They are then let out in a little yard covered with sand inside of the house, and they are allowed to scratch around in this for about six weeks when they are transferred to the colony houses until they are fully enough matured to place in the pens. Things assume a busy appearance from the time the cook and feed house is entered.

A four-H. P. gasoline motor engine is puffing away at grinding the corn and the large grain food. This is emptied into the bins. The first four pews are stocked with White Plymouth Rocks. There are 156 hens of this breed and twenty roosters. The birds are all as white as the newly-fallen snow and appear very vigorous.

In the next five pens are the Buff Orpingtons, a large, much-feathered chicken with a buff color. This is a table fowl and is not as prolific as the Plymouth Rock. Following these are the Black Minorcas, in three pens of forty each.

These are said to be the best layers that grow and produce the largest eggs.

Single Comb White Leghorns occupy the next five pens and are probably the most showy of any of the stock. They are said to be the next best layers to the Black Minorcas.

The nests are also in these houses and the chickens are so well trained that they will not lay eggs anywhere else.

Mr. Ainge seems to live for his business, and there is nothing about chickens that he cannot tell you. He has on exhibition in the brooder houses a number of blue ribbons that he carried off at the various expositions and State fairs for the best bred stock, and he predicts that Fox Hall Farm will produce stock equally as fine as any that he has ever seen. One of the White Plymouth Rock roosters that he now has came from the same stock of Edward B. J., a famous rooster, that was sold for \$500.

Mr. Ainge planned the construction of all the houses and pens and laid the water main that supplies the farm. He also has a number of inventions that he finds very handy in poultry raising.

While there are 250 acres of land devoted to the raising of poultry, the chickens will not occupy all of this space. Sunflowers and wheat are planted on the farm for use in feeding, the sunflower petals giving the chickens a glossy appearance. Mulberry and cherry trees are also planted in the pens for shade.

Chick feeds, egg feeds for laying houses and special balanced rations for fertile eggs are prepared here, using engine and grinding mills for the grains, also steam cooking machine for cooked feeds for eggs, and warm water is used for drinking during winter months.—*Charles Ainge.*

## SEASONABLE HINTS

**T**HE ravages of lice and mites will not be as noticeable during the cold weather as during the warmer months, but because these little pests are not in plain view, do not think they have departed for other climes. They have only retired for the season and will be found ready for full service next spring, unless they are destroyed before that time. Go over the perches with a paint brush and a dish of coal oil in hand. Paint every part of the perches and the walls adjacent, if the perches or their support touch the walls. Make a thorough job without regard to the quantity of oil needed, and the dormant insects with hundreds of thousands of eggs will be destroyed.

Feed oil meal freely at this time of the year. Linseed oil meal is very rich in the elements that go to the production of eggs. It will almost take the place of meat feed and poultry of all kinds is very fond of it. Considering its value, it is as cheap as anything that can be fed to poultry. Mix oil meal with three times as much bran and make a mash of it, or feed it dry in troughs; mixing with bran as for the mash. If the tops of the troughs are slatted so the hens cannot get into them with their feet, but very little will be wasted. The self feeding hoppers sold by all supply houses are excellent for use in feeding dry mashers.

Feed Epsom salts to all poultry about once a week. A teaspoonful of the salts for each twelve hens once a week is about the proper dose. Dissolve the salts in water and thicken the water with wheat middlings to a very stiff dough. This will distribute the salts evenly and each bird will get its proper share. Salts will cure bowel trouble in chicks very often. Not long ago a neighbor had a lot of chicks in a brooder, which began to die off at an alarming rate. We prescribed Epsom salts, and not another chick died, while the survivors began to grow "like weeds" and today are a thrifty and flourishing lot of birds, promising to make good size and remain perfectly healthy. For chicks half as much as is given to grown hens should be used. Epsom salts used in the quan-

tity named, will slightly physic the fowls, purify the stomach and intestines and tone the vital organs until they perform their proper functions regularly.

Do not delay securing a store of dust for dust baths during the winter. If this is neglected too long, use coal ashes which have been sifted to separate them from the coarse clinkers and slate. Never use wood ashes for a bath as the alkali destroys the oil of the feathers and changes yellow legs to white ones.

Salt is as necessary to poultry as to other animated beings. Salt is an important component of the blood and must be supplied in some way. Poultry that has never been given salt will eat enough to cause death, if given unlimited quantities at first. The best way to feed it is in mash, salting the mash about as much as ordinary food would be salted. A dash of pepper is also good as it acts favorably on the organs of digestion.

Arrange so as to have a large variety of feed for the laying hens during the winter. They like a change of diet and will do better for having it. Above all arrange for green feed of some kind. Any vegetables are good and waste products of this kind should be stored for winter use.—*Poultry.*

Fancy, high-priced buildings are not necessary. Good dry, comfortable quarters, well ventilated and with no direct drafts, is all that is required if kept clean and free from lice.

Ask the poultry buyers if the price is any better on an even lot than on an assortment of sizes and breeds. It may induce you to keep but one breed—and good fowls only.

American life has got down to a cash basis. We've got everything on the bargain counter. We are eternally asking the question, Will it pay?

## RATIONS FOR LAYING HENS

**N**O ONE appears to have found just the only feed for laying hens. Many very successful men have a good ration which they feed, and so long as it is satisfactory they do not make attempts to find a better.

Some of the various State experiment stations have been experimenting along this line, and we give a few results: "As regards the general food requirements for poultry, W. P. Wheeler, of the New York Experiment Station, in a recent summary based on station work, points out that the construction of the digestive apparatus of poultry and other birds indicates extreme efficiency and a capacity for rapid work. Like any complicated and delicately adjusted apparatus, he suggests that "it should not be overloaded nor violently disturbed when running at high pressure. It may be said to run at high pressure while the extremely rapid growth of young birds occurs, and during the extended laying season, for the resulting products call for an uninterrupted supply of food and the transformation of all material that is available. It should be borne in mind that growth and egg production can only be sustained by the food in excess of that required to support life. \* \* \* Hens in full laying seem to require rations which have a larger relative content of protein and ash, and show an increase in fuel value of 15 to 40 per cent., according to size, over those required for maintenance."

According to Professor Wheeler's estimates, when the egg yield is assumed to be 100 per year, the production of a pound of eggs requires 4.56 pounds of digestible organic nutrients in the food, and each pound of increase in the yield above this limit required 5.1 pounds of digestible organic nutrients.

As a sample of a ration which would correspond to the requirements of the standard mentioned above, Professor Wheeler suggests the following for hens weighing five to eight pounds: Cracked corn, one pound; wheat, .75 pound; corn meal, .75 pound, and .5 pound each of wheat middlings, buckwheat middlings, and animal meal, with .66 pound of fresh bone and .75 pound of young green alfalfa.

The natural food of poultry consists of grains, insects, green forage, and grit, and accordingly in domestication it is reasonable that they should be fed cereal grains and other milling products, such animal feeds as meat meals and skim milk, and should also receive an abundance of green feed or such substitutes for it as roots or steamed clover. Oyster shells, grit and an abundance of clean drinking water are also prime requisites.

In the United States corn is a favorite feed for chickens, though, as Professor Wheeler states, common grains "seem practically interchangeable, and many grain by-products can be freely substituted for different whole grains or for each other, and all combined as desired."

The Massachusetts station has compared corn with wheat and corn with buckwheat, beef scraps or other animal feed constituting a part of the ration in every case. As regards corn and wheat, the results for several years have not been entirely consistent, though on the whole the egg yield on both grains has been satisfactory. In a comparison of corn and buckwheat, the egg yield has been rather small with the advantage decidedly in favor of the corn.

In a test at the Utah station the egg yield on a wheat ration was better than on corn, though both grains were fairly satisfactory. Substituting sunflower seed for most of the corn did not materially affect the egg yield, though the cost of feed per dozen eggs was somewhat greater on the sunflower seed ration.

In Ontario, an important poultry region where the winters in general are more severe than in the United States, wheat,

according to Professor W. R. Graham, of the Ontario Agricultural College, is the most popular feed. Corn, he states, is not used there to so great an extent as in the New England States, though he believes that its use is justified, and might be profitably extended. Owing to its high fuel value and fat-producing qualities, it is an important addition to winter rations. According to Professor Graham:

"Oats should be a first-class food for poultry, but, owing to the large percentage of hull they are not relished by chickens, and for this reason they are somewhat indigestible. When ground, they are used pretty freely in mush food; also, the rolled and granulated oatmeals are used for feeding young chickens. The ground oat, without the hull, is used extensively for fattening fowls.

"Barley, either whole or ground, is very good. It has rather too much hull; but otherwise it is a satisfactory food. It is considered by many to be next to wheat in point of value.

Buckwheat is very popular as egg-producer in districts where it is grown extensively. Some difficulty is at times experienced when first feeding it to fowls in getting them to eat it, but this is usually overcome in a day or two, if other feeds are withheld. Boiling the buckwheat will sometimes start the birds to eat it. After the birds once get accustomed to its appearance, it is much relished by them. Ground buckwheat is an excellent food to use in a fattening ration. It is somewhat like corn in its fattening properties, and therefore it is better for winter than summer use.

"Shorts and wheat bran are both used extensively in making mash, or soft foods. They are excellent foods to use in maintaining the health of the flock.

"The relative merits of whole grain and of ground grain made into a mash have been studied from time to time. The practice of successful poultry raisers and the results of numerous tests show that to secure the best results the day's rations should be made up of both sorts of feed. In experiments at the West Virginia station better results were obtained with both old and young fowls when about one-third of the grain ration was fed ground and moistened than when all of the grain was fed whole and scattered in the litter."—*Homestead*.



Second Pen S. C. W. Leghorns at Central Arkansas Fair, October, 1906. Owned by W. S. King, Lonoke, Ark.

## POULTRY SHOW ON WHEELS

ON October 8th, 1906, at 7:50 a. m., there started from Union Station, St. Louis, via Missouri Pacific and Iron Mountain Railway, a poultry show on wheels, probably the first train of the kind ever run. This train was called the "Poultry Industrial" by the railroad people and was started with a view of building up the poultry industry on the line of that system by the Industrial Department of the Missouri Pacific Railway and Iron Mountain Railway.

The trip was a big success in every respect and we believe warrants all the publicity that the poultry press is capable of giving it. The train was made up of two fifty-foot passenger coaches. These coaches, however, had been especially fitted up for the trip—all seats taken out—one fitted up with forty Standard Empire coops, each two coops containing one pair of adult and one pair of young fowls. Each coop carried a neatly painted galvanized sign, eight inches by four inches, giving the name of the contributor of the birds of each particular coop, viz.: (White Plymouth Rocks, John Jones, Breeder, Sedalia, Mo.) In this way visitors obtained what information they might want in those lines and owners obtained publicity which we are quite sure will repay every one who was enterprising enough to loan birds for this trip. The breeds represented were as follows:

Plymouth Rocks—White, Buff and Barred.

Wyandottes—Silver Laced, Silver Penciled, Golden Laced, Partridge, Buff and Columbia.

Orpingtons—Buff and Black.

Leghorns—S. C. White, S. C. Brown.

Light Brahmas, Rhode Island Reds, Silver Spangled Hamburgs, Black Langshans and Buff Cochins.

The other car contained seven different makes of incubators, three of brooders, bone mills, cramming machines, feeds of all kinds and descriptions, shipping and exhibition coops, poultry wire, drinking fountains, grit boxes, in fact, as complete an assortment of poultry fixings as can be found in any poultry supply store. Advertising was permitted in the way of signs and banners to a reasonable degree. This car was set off to fine advantage by the Railroad Company with a few carnations, ferns and potted plants. The "crew" consisted of Mr. John T. Stinson, Agricultural Agent of the Missouri Pacific Railway System, Prof. R. M. Washburn, State Dairy Commissioner of Missouri, and Mr. C. M. Lewelling, of Beaver City, Nebraska, Institute Lecturer, and Mr. Henry Steinmesch, Poultry Expert, and talker for better poultry and more of it. We were billed (dodgers and printed matter being distributed in advance) for twelve full day stops, but after we got started requests were received from several towns not on the original itinerary and by close figuring and using one Sunday we managed to work in two extra towns so that in the fourteen days that we were out we visited fourteen towns. In that time fifteen thousand people passed through the cars and our institute meetings were attended by over five thousand people.

Now, don't suppose for one minute that this result was accomplished without work or hustling, or ingenuity. At our first stop the cars were placed on a convenient side track close to the station, right in the heart of the town. The cars were a standing advertisement, they were just out of the shop, newly painted, and on the side in great big gilt letters, carried the sign "Poultry Exhibits." Everybody came to the show, some from a distance of eight to twelve miles, and we felt we had made a very fine beginning. At Potosi we were somewhat at a disadvantage as to location for the reason that the town proper was three-quarters of a mile from the railroad station, and there was no way in which we could get any closer.

Things did not look very encouraging for a crowd, but Mr. Stinson got busy, making his first call on the president of the school board with a view of obtaining consent for a recess to permit the older scholars to visit the cars. This was granted and also permission for the scholars to remain over for the lecture on poultry. The editor of the local paper was enlisted and in every case proved himself a willing and useful recruit. The result was we had four hundred people visit the cars before we left and we had a fine and enthusiastic audience at the lecture in the court house at 2 p. m., and more people at the cars after the lecture, and the going and coming kept up until we were ready to pull out for the next stop. We might say that at this point we commenced to especially interest the older scholars, asking them (boys and girls alike) to write essays on poultry raising, based on what they had seen at the poultry cars and what they had heard at the institute meetings and also to embody any ideas of their own.

As an incentive we agreed to offer three prizes for each school and these prizes consisted of one annual subscription of one poultry journal each. These essays are coming in now. They will be carefully "culled" and we believe that every poultry journal in the country will be willing to swap one annual subscription for one prize essay. It was really an interesting sight to see from forty to one hundred and fifty boys and girls with their note books and pencils in hand jotting down items, and the writer feels that if this same plan could be carried out all over the country there would be such a chicken fever as was never dreamed of before.

In conclusion we want to say that the object and motive of the trip was simply one with a view of increasing the poultry industry on the line of the Missouri Pacific Railway System. The more poultry and the more eggs they haul, the more revenue for the road. The better the poultry and the better the eggs the more money it brings to the people on the line of the road, and the more money these people get, especially such easy money, the more luxuries they will buy in St. Louis, Chicago and other places, making more revenue for the road for the hauling of these luxuries.

A little roundabout, but railroad companies and other large corporations are always planning for the future and if there is business to be had, they are perfectly willing to wait for it.

Another trip of the same kind was planned for two weeks' run through parts of Arkansas, leaving St. Louis about November 10th, and if the people keep up their interest it is intended to gradually run these Poultry Industrial cars over the entire Missouri Pacific System, some sixty-three hundred miles of road.

We might say that in locating places for our institute lectures we were accommodated at some places with a court house, at other places with a church, then again in an opera house, and one place we held a meeting in the tabernacle. The people appeared to be hungry for an exhibit of this character and we candidly believe that other roads would do well to work out schemes on these lines, of which no doubt the Missouri Pacific Railway Industrial Department, is the originator.

Beef scraps is the name of a byproduct of slaughtering houses and consists of waste pieces of the animals, such as shins, heads, lights the "sticking pieces," etc. These are steam cooked, then subjected to strong pressure to extract all the fat possible, then kiln dried and ground into scraps or meat meal. When rightly made, they are a fine animal food for hens and chicks, but if filth and offal are thrown in with them they are anything but a good food. They are then only fit for fertilizer.—Ex.

## THINK ABOUT IT

WRITTEN FOR THE INDUSTRIOUS HEN BY D. M. OWEN

As one of the organizers of the present East Tennessee Poultry Association I will state the object I had in view in its organization, and hope to hear from other members on the subject. My idea was to have an association composed of the breeders of East Tennessee, a permanent organization, that would hold a show each season in the same city, on the same dates and if possible in the same building, the main object being to bring the breeders of East Tennessee together with the birds that had been raised in East Tennessee, to compare results, consult with each other, and to do everything possible to advance the poultry industry. The object was not to get a large membership of many who are not actual breeders and many who are not directly interested in the breeding of fine poultry, but to have a membership of those directly interested, and the show to be held for the purpose of bringing the East Tennessee breeders and East Tennessee raised birds together once a year for the purpose of learning from each other and improving our condition; and the show not to be held for the purpose of a selfish scramble for prizes. The large shows of the East are held each season on the same date at the same place; they have something stable and solid about them. Now at the next meeting of the East Tennessee Association I hope we will decide from now on to hold the show each season in Knoxville, and if possible at Market Hall, and on the same date, the date and place to not be changed in future. And I wish to suggest the second week in January

as the best and most suitable time for the show. It is at a time that the business rush of the season is over. December with business men is the busiest time of the entire year, and they have less time than any other to prepare their birds or attend the show, and many of the larger birds are not fully developed before January.

Another thing, as this Association is for the purpose of developing the poultry industry of East Tennessee in all lines, let us make an effort to develop a few poultry judges in East Tennessee. We have many breeders who would make good judges if they could be brought forward and into the harness. As a means of doing this, let the East Tennessee Association pass a resolution to offer each season \$25 in gold to be given the best amateur poultry judge, the same to be contested for at the annual show. This will cause some of our young breeders to show up, and each season the one who wins the prize should be appointed as assistant judge for the next show and not eligible to compete the next season. By this means we can soon develop some first-class poultry judges here in East Tennessee. I hope that all future meetings and shows of this Association will be looked upon by the members as a meeting for social intercourse and consultation for the purpose of learning from each other and comparing results of the past season, and not for the purpose of scrambling for the prizes and to win at any cost over our competitor. Our shows are not held to make money, but to improve the poultry of East Tennessee.

## DEFINITION OF A STRAIN

Many breeders advertise their strain when in reality they are not their strain at all, for it takes a number of years to establish a strain of fowls, which rightfully can be called a strain, and a breeder has not any right to call this my strain unless he has by careful breeding stamped the birds so that they may be recognized from other birds of the same variety, either in size, shape or color markings or both. Many breeders buy a bird here and there, and after breeding one year advertise their strain, which is wrong, misleading, and should not be countenanced.

The poultryman derives pleasure from the business and adds dignity to it by carefully fostering and establishing desirable features and qualities in his favored breed, making the same prepotent in the blood, thus securing a greater certainty of their being transmitted to the future progeny and until a flock of fowls can be produced which will show the improved distinguishing features claimed for it in a satisfactory degree, at least, sufficiently marked to be recognized by others who might be experienced with the breed or variety sought to be improved, it should not receive merit for being an established strain, for the palpable reason that there would be no assurance that other stock of the same breed would be improved in that direction by the use of stock from such supposed improved strain or variety.

The following definition fully describes what the meaning of the term "strain" is as applied to certain flocks of thoroughbred fowls, viz: One family bred through many generations by a faithful continuance of its own blood, except when it becomes necessary for the well-being of such family or strain to introduce sufficient foreign blood to maintain health and strength, after which breeding it out by drawing it from the strain itself; thus, in a yard of fowls which have been bred strictly in the family or strain, a female of blood foreign to the same may be used by breeding her to a male of

the original stock selected with a view to making or preserving the characteristics already established as nearly as possible. If the progeny from this mating is satisfactory, two lines of the same family can be started by breeding a male of the one to the pullets of the other, and vice versa, after which select a male of the original stock to mate with the female progeny of the last matings.

In addition to the foregoing, it is to be presumed that the family or strain possesses one or more qualities in greater excellence than other families or strains of the same breed, which may distinguish them from the race in general, or that a greater part of the various individuals of the strain can be recognized by the same. This is the second object for carefully preserving the family strain.

To what extent this faithful adherence to a certain line of breeding may be carried on, so as to perpetuate a strain, we cannot assert, but that some breeders do aim at it we are well assured. Take for example: One breeder has been breeding for a certain color or shape by this method of establishing a strain for several generations back, until he produces good color both in penciling, striping and general shape in the greater part of the flock, in fact the individuals are so much alike in these respects that close observers recognize the same and pronounce them as such a man's stock, thus showing them worthy to be styled a strain. On the other hand, there are those who claim and advertise particular strains of fowls, which are wholly unworthy of it, and the stock produced from the same, by its irregular breeding, is a verification of the injustice of the claim. Because a man has a flock of fowls which seem to fill his ideas in several sections, it is no evidence of a carefully bred strain of fowls, as he may have picked them up from several yards on account of this uniformity, which if bred together would fail to produce the characteristics wanted.—*Farmer's Gazette*.

# MISTAKES OF BEGINNERS

WRITTEN FOR THE INDUSTRIOUS HEN BY H. C. AUSTIN



HE poultry business, like every other business, has its ups and downs, but there is something fascinating about the business that is hard to resist. When you figure up the profits, the excitement runs high, for there can be more money made on paper in the poultry industry than in any other. These figures on paper can and often are realized by experienced breeders. Often a man with the capital will figure the profits for awhile and decide to go into the business heavy. So he does by building fine and extravagant houses, and sending off hundreds of miles for his stock to strangers, when he could have gotten better stock near home. The sharper sees the buyer is a new one, and sends him some worthless stock at a long price, boosting it up as some prize winner at Madison Square. Thus this beginner spends several hundreds of dollars for several different breeds. Next the beginner starts an add of "So and So" strain, and don't know he is advertising the other man as much as himself. If a man should want "So and So" strain, he will go to the fountain head to get it.

When the show season comes on the beginner has nothing in shape for the show and he must go and buy show birds at a long price. He wins a few premiums and thinks he is sure in it now. These prize winners are not mated for good results but only to win prizes. Consequently he gets nothing of any value from his matings that year. This beginner knows it all and will not give up that he is beaten. So he makes another investment in show birds, investing in a new breed, selling out his other breeds for about one-fourth of what they cost him. He pays a long price for some culls of the new breed. Nobody but an expert breeder can successfully mate and breed this new breed. So the next year he has one or two birds out of two or three hundred that will do to go to the show room. About this time new breed man gets hold of him and like a drowning man catching at a straw, beginner grabs onto another new breed. After four or five years of this business, he decides that the poultry business is a failure. He has spent two or three thousand dollars and learned that he did not know anything. He knows that if he starts out to practice medicine or run a store he should at least have some idea of the business. A man to make a success in the poultry business must be a business man, a nurse, and a doctor combined, for he will need these qualifications to handle his chicks to advantage.

Then we have another class of men who start into the poultry business. They have the capital but not the experience. They go to some experienced breeder who has bred and can breed prize winners, and get the expert's service to run and manage the plant for them. You never hear a man who does this say the poultry industry is a failure. In a few years you will see such a plant paying a good dividend on the investment. The man who makes a success with a poultry plant on an extensive scale must have years of experience. You can't just throw out the feed and expect best results from poultry.

The breeder that is always dropping a tried breed and taking up new breeds seldom succeeds. A breed is what the breeder makes it. A good breeder can make a success with any breed that is standardized. A man that is not a breeder will make a failure with the best of breeds. There is where the new breeds mainly come from. There are few breeds originated with old breeders. Old breeders know there are no better breeds than the old ones. Show me a mixed up and make up breed that can be kept up except by an expert breeder. These mixed up breeds will run out in a few years in the hands

of a common breeder. So my advice to beginners is to look well and get something you can rely on. Stick to this breed and learn to breed them. You will never learn by changing breeds so often. Don't be one who says there is nothing in the chicken business. Such men usually had better say there is nothing in the man. The poultry industry has proven to the world its right to be called the greatest and largest profit-paying industry when rightly managed. With proper encouragement in East Tennessee it will soon pay more ready money than any other three industries.

## HOW TO GET MORE EGGS

THE world abounds in theories upon every subject, and we are to some extent theory makers, all of us. But what I now have to say is derived from different methods which have been put into practice during the last year. I do not claim to know a tremendous lot about the business, but this much I know, that our hens have been more productive during the last year than the year before, at a less cost per pen. More eggs at less expense is what we are all looking for.

Now a word for beef scraps. Having the hens shut in to keep them out of the garden, I have always found it necessary to provide some substantial food, for when the hens run wild they can get worms, grasshoppers and other insects, but in captivity not so. In previous years it has been our custom to buy "plucks," boil them and feed to the poultry. They cost but 90 cents per dozen, and a dozen will last two weeks for a pen of 30 hens. This year we considered another method; for we did not like the idea of starting up a fire simply to get a few extra eggs shelled out. I had read a good deal about the beef scraps, and being only a theory with me, I thought I would give it a fair trial. Fifteen pounds, I thought would do for a trial, at the rate of two and one-half cents per pound. The hens had been dull at laying for some time, but a noticeable change took place as soon as we began to mix beef scraps in the mash. I would not say but that another kind of meat food would have brought the same results. I am only making a comparison of last year's results with those of the present year. The fact is that we are now getting more eggs at half the cost, so far as meat is concerned, and with much less work. Last year the egg production was very low, especially during July and August. This year we have been getting eight and nine dozens per week from a pen of thirty hens, which is doing very well, I think, considering the price we are getting for the eggs.

But we have also changed the method of feeding in other respects. In previous years we used to feed mash in the morning and corn at night. The only benefit under such methods would lay with the hen, as she had the privilege of laying idle all day. Now it is different and the results are also different. We have not abandoned the mash theory altogether. It is the first thing we give them in the morning, with about a pound of beef scrap mixed in. About nine in the morning we start the automatic feeder, regulating the machine to feed about half a pint every hour, more or less, according to what they will eat. Instead of whole corn I use cracked corn with a little oats and wheat mixed. This method of feeding keeps the fowls busy most of the time. Though we feed the mash sparingly, we still hold to the idea that it is beneficial to the fowl, as the system requires a change. I read somewhere that a chicken's gizzard is a mill all equipped for grinding its own feed, and I believe the less mixing we do the better the results will be. The water should be in one place and the grain in another. Our hens have free access to the water, but not to the grain. If my judgment is worth anything, the hens should not be overfed, not more at each time than what she will pick up clean.—E. G. Calson in *Commercial Poultry*.



# TURKEY DEPARTMENT

CONDUCTED BY MRS. J. C. SHOFNER, MULBERRY, TENN., TO WHOM INQUIRIES SHOULD BE MADE. ALL QUESTIONS WILL BE ANSWERED IN THIS DEPARTMENT THROUGH THE INDUSTRIOUS HEN.

## Thanksgiving and the Turkey

It is in the month of November that our President issues his annual proclamation for Thanksgiving. This we should observe, for truly we have a great deal to be thankful for, in this, "the land of the free and home of the brave." Thanks should be sent up to the Giver of all good gifts from every heart and home in our land. Prosperity in every avocation; no disease has scourged our country—only blessings of every kind on every hand.

The turkey crop is very short, according to all reports that I can gather from all turkey sections—quite a number of parties who usually raise a large flock, did not raise any at all—all died during the months of July and August. I have had the same report from a great many. The turkeys would come up in the evening seemingly healthy, and probably in the morning a dozen or more would be dead or down and would soon die. Several have asked me what was the trouble and a remedy, but I did not have any trouble of that kind and I could not tell. From the time any turkeys are two weeks old and on I occasionally give them some little something to tone the liver, for that is the tenderest organ about a turkey. That is why I want all the range I can possibly get them to take and get all the natural food they need.

This gives bone, muscle and frame to put weight on when they are old enough to take it. I do not like a fattened Thanksgiving turkey for a breeder, because the food and fat up to that time impairs the digestion, and the birds are not so vigorous in the spring, the time when we need the most feed and strength. I want my flock to grow the largest bone and frame I can get and by the time they are seven months old I can begin feeding pretty regular on corn, to heat the blood for winter and as there is little to forage on by that time it takes quite a good deal to feed a large, nice flock of turkeys.

I raise breeds altogether, but if I have any culls I always put them on Xmas market, as prices are usually better then, but the shortage of the crop and good prices on everything else, will undoubtedly give us fine prices on the few that are raised. I have a nice flock myself, as no disease of any kind has troubled me, and now I have some of the largest, finest Bronze Beauties I ever raised, and hope to please every customer. Whether for market or breeders, we should have the best size, because it pleases the customer and fills our pocketbooks.

## Why Vigorous Turkeys Pay

It is very surprising to me that some farmers' wives persist in keeping a mixed breed of turkeys. They will not lay nearly so many eggs nor hatch as well, nor the turkeys be as strong and thrifty. It is just as important to keep

full blood turkeys as any other kind of stock. There is room for improvement, even on them. Then why not improve the general flocks and keep pace with the husband? Keep the best specimens for breeders; the best are none too good.

It is not necessary to breed for fancy points, but it is economy to buy good breeding stock, even if one has to pay twice the market price for it. Better buy turkeys than eggs, for at the end of the year you will have the turkeys. Not all the desirable qualities are centered in one breed of turkeys; so as to breed, choose the one you like best, as that is the breed you will succeed best with. Having a decided preference for white in poultry, I prefer the White Holland, their color enables them to be seen readily at nesting time, or when they have their young. They are very domestic, always stay close at home and seldom steal their nests.

It is a prevailing idea with some people that hawks and crows will see white fowls easier than dark ones, and a great many will not raise them on that account. I know by experience that this is a mistake. The hawks and crows see them all. It may be where one has a

mixed flock they will pick on the white ones, but if the flock is all white, it will fare no worse than a flock of dark colored fowls. I lose but few by hawks and crows.

Having decided as to which breed of turkeys to raise, if you are a beginner two hens will be enough to start with. I prefer hens two years old, but if one is obliged to use young birds, they must be early hatched. They should be of good shape and size and not overfat. Then buy a gobbler from another breeder to make sure he is no kin to the hens, as inbreeding decreases size and vigor. If the gobbler is early hatched and matured a young one is better than an old one, as old ones are so heavy. He should be of large bone and frame, not overfat, but healthy and vigorous, one that is ever on the alert.

Breeding stock should be purchased in the fall. November is none too early, as you then stand a good chance of getting first choice. Turkeys require some time to get acquainted and become accustomed to their surroundings. Too much stress cannot be laid on the importance of using good breeding stock, as herein lies the foundation of success. —*Progressive Farming.*



Colony Houses in the Distance S. T. Schreiber's S. C. Black Minorca Farm Rockford, Ill.



Main House, 16 x 80 ft., S. C. Black Minorca Farm S. T. Schreiber, Rockford, Ill.

## QUESTIONS AND ANSWERS

## PEKIN DUCKS AND DRAKES.

How many Pekin ducks should be mated to a good vigorous Pekin drake?  
—L. R. F., Jennings, La.

Ans.—Five or six.

## CURE FOR ROUP.

Will you please give me a cure for roup? Mrs. C. W. B., Pennington Gap, Va.

Ans.—In our advertising columns you will see a number of remedies for roup advertised. They are put up by reputable dealers and we would advise you to write promptly and get one of these medicines. In treating roup, promptness in applying the remedy counts for much. A very good home treatment is to pour kerosene oil over the head and in the throat and nostrils freely. Roup is of a contagious character and many claim is incurable. If the outbreak is very bad and highly fatal, we would advise killing the seriously sick birds, unless especially valuable birds. Be sure and separate all sick birds from the rest of the flock just as soon as the illness is noticed. Place the sick ones in a warm, dry room and feed them mash highly seasoned and high in protein or meat values.



A Special Mated Pen of J. C. Fishel & Son, Hope, Ind.

## B. P. ROCKS NOT LAYING.

I have forty Barred Rock pullets eight months old and they haven't laid an egg. I keep them in a house twelve feet each way and feed them corn, turnip greens, clabber milk, and they have to scratch in litter for corn. I keep grits, charcoal and fresh water before them all the time. Please tell me how to

treat them to get winter eggs.—S. C. P., Central, S. C.

Ans.—Your Rocks should be laying some, although they frequently do not lay until ten months old, but the majority of them should be laying before that time. Perhaps the trouble is in your feed. You are feeding too much corn. Try a feed of wheat every day in place

# CHECKERBOARD CHICKENS

## BRING HIGHEST MARKET PRICES.

Why are you raising Chickens? For your Health, or to Make Money?

If you want to raise the best chickens—chickens that will produce the most eggs, and chickens which when sold will bring the highest market price—you want to pay more attention to what you feed your poultry.

Any old kind of poultry feed will produce any old kind of chickens, but it takes the **best poultry feed** to produce the **best chickens**—chickens that make you a profit. Mixing a few things together doesn't make a Poultry Feed. It is a scientific proposition and requires a thoroughly equipped mill to grind and clean and screen and blend together grains and seeds in just the right proportion for the baby chicks or the laying hens.

## ASK FOR THE CHECKERBOARD BAG.

All Purina Poultry Feeds are put up in Checkerboard Bags, to insure that you get the original feeds. **Every bag is absolutely guaranteed.**

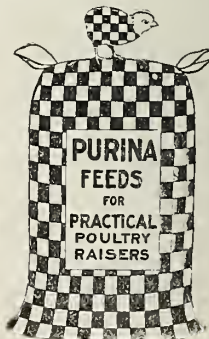
PURINA POULTRY FEEDS are made from sound, sweet grains and seeds thoroughly cleaned and sifted. No smutty or burnt wheat. NO GRIT or SHELL. Our reputation is back of every Checkerboard Bag. A feed for every purpose. Purina Baby Chick Feed to develop the little fellows; Purina Scratch Feed for every day in the year; Purina Mash to make hens lay; Purina Alfalfa Meal, green feed for the year round.

Ask your dealer for **THE CHECKERBOARD BAG** and insist on having it. Take no substitute. Don't let anybody make you think something else is just as good. If your dealer doesn't handle our feeds, then send us his name and we will send you samples and a copy of the "Standard Poultry Feeder."

**RALSTON PURINA MILLS, ST. LOUIS, MO.**

ACME MILLS CO., Portland, Ore.

THE TILLSON CO., Tillsonburg, Ont.



LEWIS LEONHARDT & CO., Agents, KNOXVILLE, TENN. 1001-1013 Park St. Both Phones 159.



"White Wonder," a Typical White Wyandotte. Bred and Owned by J. C. Fishel & Son, Hope, Ind.

of corn. In your climate it is not necessary to feed the grain feed in scratching litter except in cold, wet weather. It is best to get the birds to use out doors all they will when the weather is not too rainy and cold.

#### CORN AND TURKEYS.

Do you think corn good for our chickens and turkeys at this time of the year? (Nov. 1st).—Mrs. C. W. B., Pennington, Gap, Va.

Ans.—Corn is a good feed for the turkeys about the time you mention, as it is very fattening and turkeys should be fattened for four weeks before selling them. Thanksgiving is supposed to be the best time to sell them, although for recent years they have brought as good prices until after Christmas. Corn alone is not an ideal feed for laying hens, especially. It would be better to feed at least half wheat to your hens, even if you have to sell corn and buy wheat.

#### BOOKS ON POULTRY.

I am going into the poultry business. What book would you recommend me to buy on poultry raising?—S. C. P., Central, S. C.

Ans.—Among the good books are "How to Grow Chicks," "Poultry Book," "Pocket Money Poultry," and other good treatise on the subject of poultry raising that you will find described and priced in our advertising columns.

#### Attention, Secretaries!

We have sent to secretaries of poultry shows samples of Coop Labels and Score Cards—and a large number have expressed their delight and have ordered. Many have undoubtedly overlooked this great opportunity of properly labeling their show coops.

A show room with every coop of birds properly labeled is an education to visitors. Do not be too late. For further information see third cover page.

Clean nests mean clean eggs and clean eggs mean well pleased customers.



### WOODCOTE POULTRY YARDS

#### WHITE WYANDOTTES EXCLUSIVELY

Bred in the country, on the blue-grass, these birds are feathered aristocrats. A letter will give you full information and be more satisfactory than a brief ad. A few April-hatched Cockerels for sale. All stock shipped on approval. Eggs for sale December 15th.

MRS. WM. R. LUKE, R. R. No. 5, Nashville, Tenn.



### BROWN LEGHORNS

First Cockerel, Second Pen, at the World's Fair, St. Louis, Mo.

Over 200 regular and special prizes at fifteen great shows. Eggs \$2.00, \$3.00 and \$5.00 per 15. Free circulars on Matings and Show Record.

E. E. CARTER, 967 Broadway, Knoxville, Tenn.

### J. F. TILLERY & CO.

WHOLESALE DEALERS IN

**RAILS, LOCOMOTIVES  
ROLLING STOCK  
SCRAP IRON AND METALS**

We are also in the market to purchase any of the above for cash. Correspondence solicited.

Van Deventer Bldg., KNOXVILLE, TENN.

Is The Industrious Hen Visiting Your Home?



Brother 1st, 1st Cock Knoxville

## MADDEN'S BARRED ROCKS

RICHEST BLOOD IN THE SOUTH

### Cockerel Pen

Headed by Brother 1st, 1st Cock, Knoxville, Tenn., January 1906. Brother 1st Cockerel, Providence, R. I.; 2d Cockerel, Boston, Mass.

### Pullet Pen

Headed by Bradley Lee, Brother to Females 1st and 2d pens, Madison Square Garden, New York, '06

Winnings Knoxville Show January, 1906; 1st Cock, 1st, 2d Hens; 2d, 4th Pullet, 2d Cockerel, 3d Cockerel Tie, 2d Pen Eggs, \$3.00 for 15; \$5.00 for 30. Stock For Sale.

MRS. W. R. MADDEN

Old Phone 2545

South Knoxville, Tennessee

## THE HOSPITAL

### Scaly Legs

It is well for the poultry raiser to keep a close watch of the legs of his fowls. If more would do this the poultry would be saved attacks of the insects that burrow under the scales on the legs and produce what we call "scaly legs." Often the trouble is not realized till the pest has spread all through the poultry yards and most of the fowls are affected. Then some of them have become so bad that it is extremely difficult to cure them. If they are taken in time a good bath of the legs in a kerosene emulsion or some other insecticide may check the invasion, as the insects will be annihilated. If the legs are as they should be they will be smooth and glossy in appearance, no matter what their color may be.

### Cure for Sore Head

Sore head is a blood disease. It makes its first appearance in small pimples filled with water, which soon after dry up in a small black scab. During the first few days, the fowls do not appear to suffer and eat heartily, but after that they often mope around and refuse to take any food. The disease is strictly a constitutional ailment, but seldom proves fatal.

The first thing most needed is a tonic to tone up the system, then a purifier for the blood. Tincture of iron kept constantly in the drinking water is a very good remedy, while powdered sulphur in soft food will aid in purifying the blood. When possible the fowls should be moved to a place as far dis-

## OUR 1906 CATALOGUE OF STANDARD POULTRY SUPPLIES IS NOW READY FOR DISTRIBUTION

It is filled with valuable information on POULTRY RAISING FOR PROFIT, with illustrations of Incubators, Brooders, Portable Poultry Houses, Poultry Foods, Insecticides, Poultry Remedies and Poultry Appliances; 64 pages in all—with over 100 illustrations. It is yours for the asking.

THE J. M. CONNELLEY CO.  
311 Meeting St. CHARLESTON, S. C.

## Columbian Wyandottes



### The Coming Utility Fowl

Combining the beauty of the Light Brahma with the Wyandotte shapes, thus deriving their wonderful qualities from two of America's leading breeds.

My strain is sired by the first cockerel at St. Louis. Will breed true, produce large brown eggs and plenty of them. A few pairs of high bred stock for sale, and eggs in season.

First Prize Cockerel, Knoxville, also First Pullet.

FRED L. BEYMER, Knoxville, Tennessee

## SCHREIBER'S S. C. BLACK MINORCAS

The Autocrats of Poultry

They have been bred ten years by a specialist, and won under Judges Heimlich, McClave, Heck and many others, winning first at Rockford; Belvidere, Jan. 16 to 21, 1906, first cock, first, second and third cockerel, first, second, third and fourth pullet; first, second and third hen and first pen—*pen scoring 188 15-16*. Greatest Layers; none better on earth. Vigorous stock for sale, Buff Turkeys and Pearl Guineas of the finest type.

S. T. SCHREIBER, - - - Rockford, Illinois

## Lanier's "Ringlet" Barred Rocks

Cockerel Mating Only

want the best. Every bird shipped on approval. Write me your wants and send for real photographs of my Cockerels.

Do you want that Zebra striping in a Barred Rock Cockerel? I have the best lot this year that I have ever produced. Cockerel bred females at reasonable prices for quality. Buy from a breeder who breeds for Cockerels only if you

**DEWITT LANIER**

Barred Rock Specialist, Box D, Cardwell, Mo.



## WHITE PLYMOUTH ROCKS

EXCLUSIVELY

—FARM RAISED—

Vigorous birds from the best parent stock obtainable.

FOR SALE---TEN WHITE ROCK COCKERELS,

ALSO A FEW PULLETS.

Write your wants to

**D. P. WALKER**

Route 1, - Sweetwater, Tenn.

## Darling's Protein Feeds

MAKE THE EGGS COME.

Cold weather is the time you make your egg money—if you have the eggs. It's a matter of summer rations in winter weather. Darling's high quality feeds—high in protein, low in fat—meet the demand. Don't forget that it's cheaper to pay 2 cents a pound for a food that's fresh and sweet and every bit egg making material, than to pay 1 cent for stale stuff of doubtful value, sold without guarantee.

Darling's Laying Food.....	\$2.00	Darling's Beef Scraps.....	\$2.50
Darling's Scratching Food.....	\$2.00	Darling's Chick Feed.....	\$2.50
Darling's Forcing Food.....	\$2.00	Darling's Oyster Shells.....	.60
Darling's Mica Crystal Grit.....		.65c	

In 100 pound Sacks. Shipped from Chicago or New York. Cash with order.

You need our late Food and Supply Catalog. Goods that it pays to buy. No foods but poultry foods. Catalog is free. Write for copy. Address nearest office.

**DARLING & COMPANY,** Box 41 Union Stock Yards, Chicago.  
Box 41 Long Island City, New York.

## THE GAINES WHITE PLYMOUTH ROCKS

BRED TO WIN—AND DO IT

You would probably buy the Gaines White Rocks if you could take them in your hand and see their immaculate white plumage, their unusual beauty, style and vigor.

ONLY 50 BEAUTIFUL COCKERELS LEFT FOR SALE.

10 of them sons of Bob and Alice White. No more Females for sale this year.

Send for FREE Circular, which gives a list of my winnings.

If birds I ship do not please you, return them AT ONCE. YOUR MONEY BACK and I stand express charges BOTH WAYS.

E. H. Gaines, Prop'r, GAINES' POULTRY YARDS, Gaffney, S. C.

## SANDY RUN POULTRY YARDS

W. D. HARRILL & CO., Props. - - - Ellenboro, N. C.

Breeders of Light Brahmas, Black Langshans, Black Minorcas, Buff and Barred Plymouth Rocks, R. I. Reds, Part-ridge and Buff Wyandottes, Brown and White Leghorns, Belgian Hares.

We have won this season at Atlanta, Charleston, Raleigh and Charlotte, on our birds 43 1st prizes, 32 2d, 27 3d, besides scores of specials. Prices of eggs \$2.50 per 15. We have a few good cockerels for sale, including the 1st and 4th prize winning Part-ridge Wyandotte ckl. at Raleigh, also 1st, 2d and 3d at Charlotte, price \$5 to \$10 each.

tant as convenient from the place where kept and the disease should quickly subside.

There is another form of sore head, in some ways similar to the one referred to, but this is entirely different in effect. Strictly speaking, is roup, but those who keep posted and know the general conditions of their poultry can not fail to note the difference. The former is only a mild blood disease, followed by no harmful effects, while the latter when once given a start, will practically destroy the entire flock.—*Poultry World*.

### Permanganate of Potash for Roup

Roup is the most common disease in poultry. It is caused by a bacillus. The disease germs are most likely to attack fowls that are housed in quarters where there is filth, foul air and cold drafts. It manifests itself by hoarse breathing, swelling about the eyes, and discharge at the nostrils which dries and clogs the air passages so that the fowl must open the beak in order to breath. Slaughter and bury deeply is the best treatment, to be followed by thoroughly disinfecting the quarters, and the feeding and drinking troughs so as to destroy any germs that may remain.

If the fowls are worth the trouble the following treatment when adopted in the early stages, will usually prove effectual: Dissolve two ounces of permanganate of potash in six and one-half pints of water. Completely submerge the fowl's head in this solution, and hold it there as long as the bird can endure it without choking to death. This will cause it to sneeze thus forcing the solution through the nostrils when it comes in contact with the diseased parts. Repeat two or three times, morning and evening. Next dilute some of the same solution with four times as much water and give the fowls to drink, allowing no other water. Do not mistake a cold for roup.—*Farm and Ranch*.

Only a few more weeks and all the feed the fowls get must be supplied them. They will need grain food, green food and animal food, and arrangements should be made to supply their needs if they are expected to do well. The grain food is easily procureable at any time. For green food lay in a supply of second growth clover hay. When scalded this is almost equal to green clover and the birds are fond of it. The problem of supplying animal food is easily solved. Buy a green bone cutter, get bones from the butcher and grind them up. In addition to the above, supply grit, charcoal and clean water, and then if the hens don't lay get rid of them.—*Commercial Poultry*.

**TWENTY-FIVE YEARS EXPERIENCE**

IN BREEDING

**Barred Rocks**HIGH CLASS BREEDERS  
A SPECIALTY400 Youngsters From 1906  
MatingsShow Birds for the Fastest  
Company or your money back**PERSONAL ATTENTION  
TO YOUR WANTS****HUTCHISON & LAMAR**  
CRYSTAL SPRINGS, MISSISSIPPI**"Hero" Heads Pen No. 3. Best Colored Cock South.****Stricken at His Post**

In his last meeting, at Oklahoma City, speaking to his wife and addressing her affectionately as "Mother," Sam Jones said: "I want you to arrange with Brother Holcomb to go to Cartersville in December and have him assist you in writing the story of my life." Alas! the time came sooner than was expected. The great evangelist and toiler for good was stricken at his post. Carrying out what was perhaps his last request, within one week after the death of this beloved man his old co-worker, Mr. Halcomb, with several stenographers, under the advisement of the bereaved widow, were working night and day, arranging and weaving together into tangible shape "The Life and Sayings of Sam Jones."

This interesting volume, plethoric with the finest illustrations, will come from the house of J. L. Nichols & Co. early in December. Send to them, 915 Austell Building, Atlanta, Ga., for illustrated circulars. Handsome agent's outfit will be sent for 50 cents.

The question of winter egg production is of vital importance to every poultry raiser. You want eggs for market when the price is highest; you want eggs when eggs are still scarce for early hatching. If the hen is kept in proper working order and is given the proper materials with which to make eggs, she can't help laying, even should she want to help it. If you comply with these two things, you'll have eggs in abundance all winter long.

Graded eggs sell for enough more to pay for grading. Browns and whites separate; large and small also; likewise clean and soiled. Of course all are freshly gathered.

Beets cooked and chopped make an excellent addition to the winter food of chickens.

**BUY the BEST to BREED FROM**

250 ACRES DEVOTED TO POULTRY.

**EGGS FOR HATCHING \$2 FOR 15; \$10 PER 100.**

STANDARD BRED COCKERELS \$1.50 TO \$2 EACH, 10 MONTHS OLD.

Select American and Imported Strains. S. C. Buff Orpingtons, White Plymouth Rocks, S. C. White Leghorns and S. C. Black Minorcas. We breed only thoroughbred poultry. Write your wants.

**FOX HALL POULTRY FARM,**

R. F. D. No. 2.

NORFOLK, VIRGINIA.

**BROWN LEGHORNS****YEARLING COCKS and HENS FOR SALE**

A number of Cockerels and Pullets from Prize Winners are now ready to ship. **Ask for Circulars**

**OUR PRICES WILL INTEREST YOU****M. S. COPELAND, Powell's Station, Tenn.**

**SENT FREE** Booklet entitled "Draughon's Eye Opener." It will convince you that Draughon's Colleges can, by their SUPERIOR and COPYRIGHTED methods, teach

you more Bookkeeping in **THREE** months than others can in **SIX**, and that Draughon's teach the **BEST** systems of shorthand.

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**KNOXVILLE, Nashville, Atlanta, Raleigh, Columbia, Memphis, Little Rock, St. Louis, Dallas, Fort Worth, etc.**

## KULP—CHICKENS—EGGS

When you think of one you will think of the rest and remember I breed

**Rose and S. C. Brown and Rose and S. C. W. Leghorns**

With Records of 242, 240, and the Whites 236, and I have size and size of Eggs. Winners at MADISON SQUARE, too.

**White Wyandottes, Barred Rocks and Buff Rocks**

Are the Finest Strains and are bred to lay. Big money has been refused for our White Wyandottes in the last year.

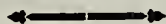
Collie Pups.

W. W. KULP, Box 75, Pottstown, Pa.

## I AM OFFERING FOR SALE



Some very fine bred S. C. Buff Orpington Pullets, one year old Hens and Cockerels, also S. C. R. I. Red Cockerels and R. C. White Wyandotte Cockerels.



EGGS AFTER JANUARY 1ST.

SATISFACTION GUARANTEED.

FOREST PARK FARM,

CHARLES W. SMITH, Proprietor

WILLIAMSBURG, VA.

## DO YOU WANT GOOD STOCK?

THEN TRY

**F. L. SNYDER & CO.'S**

BULL DOG STRAIN OF

**MOTTLED ANCONAS. WHITE WYANDOTTES.**

SOME SPLENDID COCKERELS FOR SALE.

WRITE US YOUR WANTS.

## WARD'S RHODE ISLAND REDS.

BRED FOR FANCY AND UTILITY. STOCK FOR SALE AND EGGS FOR HATCHING \$1.50 AND \$3.00 PER FIFTEEN. WRITE FOR FREE CIRCULAR.

**LAKEMONT POULTRY FARM,**

C. FRED. WARD, Proprietor. (President Florida State Poultry Asso.) WINTER PARK, FLA.



## White Plymouth Rocks

(EXCLUSIVELY)

I have hatched off as many chicks as I can well take care of, and will sell eggs the balance of the season at \$2.00 per setting. Now is your chance to get some good eggs for little money. A fine lot of youngsters coming on and getting ready for the Fall shows and will as usual take their share of the ribbons as they have always done.

SATISFACTION GUARANTEED

**Green Grove Fruit & Poultry Farm**

GEO. DARWIN, Proprietor

FARLEY, ALABAMA

## BRED TO LAY AND WIN AND DO IT

Wilber's Single Comb White Leghorns Acknowledged World's Best

Grand flock very choice Exhibition and Breeding Cockerels, Pullets and Hens that will win and improve your flock. From our past season's Grand Winners at Knoxville, Nashville, Chattanooga, Tenn.; Atlanta, Ga.; Charlotte, N. C.; Birmingham, Ala.; Charleston, S. C., etc., shows. Quality counts. We have it. Write your wants.

EGGS, \$2.00 and \$3.00 for 15; \$3.50 and \$5.00 for 30; \$10.00 and \$15.00 for 100

Satisfaction Guaranteed. Catalogue Free.

WILBER BROS.,

Box G,

PETROS, TENN.

15 Years Specialist

Tenn. Vice-President National S. C. W. L. Club.

## BRIEF MENTION

We have received the premium list of the second annual exhibition of the Oconomowoc Poultry and Pet Stock Association. This exhibition will be held at Oconomowoc, Wis., December 7 to 13, and promises to be a great success.

Frank Langford, of Nashville, and his high scoring Reds, are always "there with the goods." At Charleston, November 5-9, in the hottest of competition, he won first cockerel, first hen, second cock, fourth pullet. Only four birds exhibited.

We are informed by Mr. W. F. Maury, secretary of the Chattanooga Poultry Association, that the exhibition which was scheduled to be held in Chattanooga, December 12 to 15, has been declared off for the winter. The reason assigned is that the management was unable to secure suitable accommodations.

Much interest is being manifested in the show which is to be held in Bristol the first week in January. Geo. C. Brown, of Maryland, has been engaged to judge the show. A grand display of birds is looked for and in every sense the show promises to be a great success.

Mr. C. Van Winkle, of Dallas, Texas, has the proud distinction of being the owner of the champion White Rocks of Texas. At the recent Houston show he won more first prizes than all others combined. He also had the highest scoring hen at the show, regardless of variety, as well as the highest scoring cock in the American class.

The third annual poultry show, to be held at Greenfield, Tenn., December 27-29, gives promise of being a great success. In quality of birds, and number of entries this show will surpass anything ever held in that section of the country, says Mr. W. E. Kirksey, president of the Greenfield Poultry and Pet Stock Association. R. E. Jones, of Paducah, Ky., has been employed as judge, which insures that this end of the show will be conducted strictly "on the square." Premium list and full information may be obtained by addressing S. T. Johnson, Secretary, Greenfield, Tenn.

One of the liveliest communities of the South today is Folkston, Georgia, the home of the 1906 colony. This colony is primarily organized for Northern folks who wish to escape the cold winter, who wish to seek a healthier climate, who want to get a home of their own. No other colony company has ever been so liberal with its patrons. Free fuel, free schools, free building lots, are some of the good things offered to home-seekers. Besides these, the colony company guarantees work to all and helps needy men to homes. Every state in the union is represented. Any one who wishes a new start in life, who wishes to get in on the ground floor of opportunities, had better write a letter at once to C. W. Waughtel, manager, Folkston, Ga.

The annual poultry show at Madisonville was held on November 14-15 with an entry of two hundred and fifty birds of the very highest quality. The weather was very unfavorable as it was snowing in drifts all day the first day and disagreeable and muddy the second day. This kept a number of exhibitors with their birds away and cut down the attendance of visitors. This show is free, there being no entry fees or admission charged. It is the intention of the exhibitors to promote the industry. The class of birds exhibited was very high, as Monroe county is noted as a poultry center. Joe Knott, the well known White Rock man, of Knoxville, made the awards by comparison and gave good satisfaction. Elsewhere we publish a list of awards.

**BOOKKEEPING**  
**AND SHORTHAND TAUGHT BY MAIL**  
**BOOKKEEPING**  
**Knoxville Business College**  
Address Dept. 16, KNOXVILLE, TENN

## Boys' National Poultry Club

Editor *Industrious Hen*:

In a recent issue of your journal you did me the favor of publishing an article in regard to my club. I would like to follow it up with another, telling of my success. A large number of boys have answered, and better still, several have gone into it soul and body, and gotten several other members.

Now, for the benefit of those boys who read my other article, and thought no more of it, I wish to tell a little more about it. The main object is to get together the boy poultry breeders, and to have them purchase from one another, thus encouraging each member. I will also answer any questions they should ask.

I have received many answers, coming from a large amount of territory, and hope to receive many more. I seemed to have conveyed an impression in my last article that only Southern boys were wanted. This is a mistake. Though I would like to enroll every boy in the South as a member, I will also take boys from the North, East and West.

Now for a word to the boys:

If you wish to join this club, write me (enclosing stamp), and I will answer you at once, at the same time enrolling you as a member of the Boys' National Poultry Club. Please get your name in as soon as possible, as I want to make out a list of members by the first of January, ready to mail to the enrolled members. The club is free to all boys under twenty-one years of age. Now be an "Early Bird," as you are all wanted right away. My address is,

ROBERT FIELDS,  
33 Caruthers avenue,  
Nashville, Tenn.

[As this is the only organization of its kind on record, and in order to encourage the boys, THE INDUSTRIOUS HEN proposes to send to every one who joins this National Poultry Club, a year's subscription to this paper for half price, on the condition that in signifying their intention to join, they send in their names and postage as required to Robert Fields, and 25c additional to him for a year's subscription to THE INDUSTRIOUS HEN. The results of the club, together with a list of its members, will be printed in this journal.—Editor.]

It pays the poultryman to have nice, clean, comfortable nests. Pays in good, round, hard dollars and cents. Nests have more influence on the egg yield than the average man realizes. "Don't believe it?" Well, suppose you try it and satisfy yourself. If you have the right kind of nests installed take them out for a day or two and see if you get as many eggs as you have been in the habit of getting. It's the little things that count in the poultry business as in other things.—Ex.

**PIEDMONT**

**"IS THE BEST."**  
Write for Catalogue  
Piedmont Business College,  
Lynchburg, Va.

BRED FOR UTILITY  
BRED TO LAY

RED, WHITE AND BLUE

BRED FOR FANCY  
BRED TO WIN

At Sandy Creek, Phoenix and New York State Fair, the hottest shows in New York State in 1904-05, I won 76 prizes and special on my Blue Barred Rocks. Brahmas, Rocks, Reds, Leghorns, Minorcas, Wyandottes, Bantam, Eggs \$1.00 and \$1.50 per 15. Hatch guaranteed. Rouen Duck Eggs \$1.25 per 11; Toulouse Geese Eggs 40c. each. Catalogue free.

PULASKI, N. Y., Jan. 6, 1906.  
Dear Sir:—Out of the 26 eggs I purchased of you I got 28 chicks,  
11 of them were pullets, and yesterday I got 11 eggs, and get from 6 to  
10 eggs every day. Yours truly,  
THOS. WILDER.

MAPLELING POULTRY YARDS, H. DAILY, Propr.

Box S.

PULASKI, OSWEGO CO. NEW YORK.

## D. R. MAYO

625 GAY STREET, KNOXVILLE, TENN.

Poultry Supplies, Field and Garden Seeds

DARLING'S FEEDS. BEEF MEAL, BONE MEAL, SHELL AND GRIT.

A full line Prairie State Incubators and Brooders. Write me your needs

## SPRING GROVE POULTRY FARM

Rose Comb Rhode Island Reds. Good Breeding (Cockerels and Pullets for Sale

Won 1st cock, 1st hen, 2d cockerel, 2d and 4th pullets, 2d pen,  
Knoxville Show, Jan., 1906. Competing with all Reds—both  
Rose and Single Comb. No Eggs until January 1

R. F. D. 6

O. H. C. RODGERS,

Knoxville, Tenn.

THE S. C. BUFF ORPINGTON  
THE FAMOUS WINTER LAYER

Mates to Prize Winners at the Tennessee State Fair

Address J. M. KELLY, Gordonsville, Tenn.

ARE YOU GOING TO TEXAS  
OR TO ANY POINT WEST?

The  
**Queen & Crescent Route**

OFFERS BEST AND QUICKEST TRAIN SERVICE

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WRITE TODAY FOR MAPS, RATES,  
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# GIDEON O. HARNE'S MINORCAS



The World's Undisputed Champions, Developed by Careful Selection from Foundation Stock of First Prize Winners. Bred for Vigor, Beauty of Shape and Laying Qualities. True Winners of the Blue

Greatest winners at the Great Hagerstown Show, 1904 and 1905, where I won in 1904 more prizes than all other competitors combined, including the Silver Cup for Best Minorcas in the show, and again in 1905 in competition with World's Fair Winners I won the 1st, 2d, and 3d Pens, 2d and 5th Cocks, 3d Hen, 5th Pullet and 5th Cockerel in Blacks, including the Silver Cup for Best Minorcas Pen in show, also Cornell Special; in Whites I won 1st and 2d Pens, 2d and 5th Cocks, 2d and 3d Pullets, and First White Cochins Pen. Therefore Don't Waste Money and Time as well on cheap stock, but begin with the best by placing your orders with me for anything in Black or White Minorcas, Buff or White



Cochins, White Leghorns, and White Plymouth Rocks. Place your order quick and avoid the rush.

GIDEON O. HARNE, V.-Pres. Black Minorca Club for Maryland Box 138, Wolfsville, Md.

## 1894 AUSTIN STRAIN 1906

I make a specialty of Langshans; have bred them for 13 years; won all first, second and third prizes on young stock at Knoxville and Bristol last winter. Show breed a specialty; 300 fine ones to select from.

H. C. AUSTIN

136 MARKET STREET, :: :: JOHNSON CITY, TENN.

## Hope's Great Jewelry Store

Is one of the most complete establishments of its kind in the South Established 1868

Our Sales Department has every case crowded with the finest, newest and most attractive Jewelry, Gems and Watches.

Our Manufacturing Department is prepared to repair the finest imported and domestic Watches, Jewelry and to reset Gems.

Our Copper Plate Engraving executes all orders in correct and elegant manner.

Our Optical Department enjoys the most enviable reputation. IN EVERY DEPARTMENT we are constantly filling MAIL ORDERS from all sections of the South.

Write us when in need of anything in our line.

HOPE BROS., 519 Gay St., Knoxville, Tenn.

## DO YOU WANT TO KNOW

ABOUT MAUND'S PRIZE-WINNING

## S. C. WHITE LEGHORNS

Then Write for Free Circular

A. T. MAUND, :: :: Geneva, Ga.

## MAMMOTH BRONZE TURKEYS B. P. ROCK CHICKENS AND POLAND CHINA HOGS

"Goliath," at 19 months old, weighed 48 lbs., scored 97½ points, won first prize at Nashville show, January, 1906; also two specials for largest fowl in show. I also won 4th hen and 4th pullet, score 95 points. At North Alabama show, December, 1905, I won 1st on yearling cock "Goliath," 2nd on yearling hen, special \$5.00 on pair, 1st on cockerel, 1st on pullet, special \$5.00 on young pair. Goliath heads my flock of breeding females, 1906, six of which are daughters of "Jumbo Jim," the 47 pound, 18 months old tom that won 2nd prize at World's Fair, St. Louis, 1904. I also have 1st and 2nd prize winning pullets at Columbia, Tenn., in my flock. I carry B. P. R. chickens of best prize winning blood—Bradley Bros. and Sid Conger strain direct. Young and old stock for sale. Patronage solicited and everything guaranteed as represented. For further information address

MRS. J. C. SHOFNER R. F. D. No. 1, Mulberry, Tenn.

### This Etowah Hen Beats a Gold Mine

J. W. Brothers, of Clear Springs precinct, in this county, owns a hen that is a cross between a Plymouth Rock and a Leghorn and she is worth a gold mine. Her record for the past 11 months is one of such thrift and industry that cannot be discounted by investments in mergers, trusts, bonds, stocks, etc. Here is the tabulated record of this remarkable hen:

Beginning 11 months ago she laid 17 eggs and went to setting.

She hatched the whole number and voluntarily assumed charge of 16 chicks. hatched by another hen at the same time.

She raised the entire 33 chickens in a cheerful and patient manner.

Mr. Brothers sold 30 of the chickens for \$8 and kept three for stock.

She was next allowed to raise only nine chicks but these with the eggs she laid sold for \$7, making a total of \$15 this one hen made in the 11 months.

But that is not all. She's still laying and the last two eggs found in her nest were brought to Gadsden and weighed Thursday. One weighed even a quarter of a pound and the other a half ounce more.

Mr. Brothers is figuring on his possible wealth if he only had a few hundred more like this remarkable hen.

Mrs. J. C. Shofner, editor of the "Turkey Department" of THE INDUSTRIOUS HEN, won the following prizes at the Columbia show last week on turkeys raised by her: 1st on young tom, scoring 97½; 1st on pullet, scoring 97 points. Her young tom won silver cup on highest scoring bird in the show of 2,000 birds. She also won 3rd on cockerel in the B. P. R. class. Mrs. Shofner has the reputation of raising the finest turkeys in Tennessee, and as she certainly knows how, any of our subscribers who would like to know may get some valuable information by writing her. Questions will be answered through her department in this paper.



**YOUR NAME  
and Address  
is Wanted**

If you are  
Interested in

**Silver Laced Wyandottes**

The  
Dutchman  
with a  
Square Deal

J. O. MUECKE, Jr.  
Kingston, .. Tenn.

## Oakdene Poultry Farm White Wyandottes Exclusively

Eggs \$2.00 per 15. — Special Price per Hundred  
REGISTERED BERKSHIRE HOGS

S. A. OGDEN, Proprietor  
P. O. Box 317 Knoxville, Tenn.

## Leghorns vs. Mongrels

The West Virginia Experiment Station reports the following summary of an interesting experiment:

1. Fifty White Leghorns were compared with fifty mongrels for one year as to cost of food and egg production, ordinary care and attention being given them such as they would receive on the average farm.

2. In addition to skim milk used to moisten the mash the Leghorns consumed 61 pounds of food costing 85.3 cents, and the mongrels consumed 66.8 pounds of the same materials costing 92.1 cents.

3. During the year the Leghorns laid 116.5 eggs, worth \$2.24 per hen, and the mongrels 96.1 eggs, worth \$1.78 per hen.

4. The Leghorns gave a profit over the cost of food of \$1.39 and the mongrels a profit of 86 cents.

5. The mongrels gained in weight one pound per head more than the Leghorns. If this increase in weight is taken into consideration then the Leghorns gave a profit of 40 cents per hen more than the mongrels.

6. The highest prices for fresh eggs usually prevail during the months of November, December, January and February. During these four months the mongrels laid only 364 eggs and the Leghorns 1,029, or practically three times as many.

This is the season when most breeders are overworked, and those wishing to infuse new blood into their flocks can now procure good breeding stock at small outlay. Don't be afraid to buy yearling males if you can get them. We have found them a good investment.

## YES, SIR! IT'S A FACT!

The Remarkable Increased Popularity of

COLUMBIAN  
WYANDOTTES

During past few years clearly indicates they are destined to be acknowledged the standard commercial fowl of America. Undoubtedly I have one of the richest and truest reproducing strains in the United States.

PROLIFIC LAYERS    THEY ARE    EXPEDITIOUS GROWERS

Shall deem it a pleasure to quote prices—reasonable prices, on birds of the richest breeding and highest quality

COLFAX SCHUYLER

Breeder and Judge

Jamesburg, Box (I-H) N. J.

## SUNNYSIDE LEGHORN FARM

JNO. R. BALDWIN, Prop.

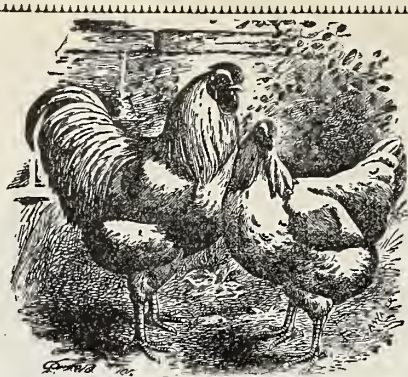
HARRIMAN, Box B, TENNESSEE

## SPECIALTY BREEDER AND SHIPPER

WORLD'S BEST Single-Comb White Leghorns. Bred to Standard with due regard to utility points. Greatest Laying Exhibition Strain in the South. The Birds—Par Excellence—for the Farmer as well as Fancier. Stock and eggs all seasons. Reasonable Prices.

200 Choice Cockerels for Sale

Co. Vice-Pres. E. Tenn. Poultry Ass'n.  
Mem. Nat'l S. C. White Leghorn Club.

SANITARY POULTRY YARDS  
"FAMOUS" WHITE WYANDOTTES

Foundation stock of the noted strains of A. G. Dinston, J. C. Fishel & Son, Inc. W. Boswell, Jr. and Dr. Bricault. From these I have built up by the Trap-Nest individual record system, using nothing in breeding but the best, what I am pleased to call the

## FAMOUS STRAIN

I breed for merit and sell on honor a strain of heavy layers. They are snow white, prolific and strong—the best all purpose fowls. No stock for sale this season, but am booking orders now for EGGS \$3 FOR 15.

W.T. ROBERTS, Curley, Ala.

Member National White Wyandotte Club

## FAIR VIEW FARM

Single Comb BUFF ORPINGTONS Exclusively

I have a few Cockerels ready for service, that are second to none, that I will sell at \$5.00 each. None sent from my farm but the best. Prize winners at State Fair, Nashville, October 8th. There is no better blood than these. Money cheerfully refunded if not as represented. These birds win. Eggs from Pen No. 1, \$5 for 15. Eggs from Pen No. 2, \$2.50 for 15.

MRS. MARVIN M. FORD

ELMWOOD, TENNESSEE.

## SUCCESS WITH POULTRY

There is no success with Poultry unless your Foundation Stock is the Best.

## THE PALACE POULTRY YARDS

J. T. SNELSON, Proprietor.

Breeders of High Class Black Minorcas, White Minorcas, Buff Rocks, White Rocks, Barred Rocks, Buff Leghorns, White Wyandottes.

BIRDS FOR SALE    EGGS IN SEASON

We have a fine lot of Homer Pigeons for Squab Raising. Prices on Application.

Ours is the largest and most extensive Poultry Plant in South Carolina. It will pay you to visit our place.

Congress and Sumter Sts., CHARLESTON, S. C.

## Russell's S. C. Brown and White Leghorns

won at the Ohio State Fair, 1st Cock, 1st Cockerel, 1st Pullet and 2d Pen on each. 1,000 CHOICE BIRDS FOR SALE. Also a fine litter of Scotch Collie Pups. Catalog free. Write

F. H. RUSSELL, Box H, WAKEMAN, OHIO

## White Plymouth Rocks (Exclusively)

Hardy, Vigorous, Farm Raised. Stock and Eggs for Sale. Eggs \$2 per Setting

JOE KNOTT, R. F. D. No. 2, Knoxville, Tenn.

## WHY NOT

Come to the fountain for your stock and eggs? My winnings at four shows, including Atlanta, Ga., 40, and 16 first, more than all of my competitors. Eggs \$3.00 per 15, \$5.00 per 30. Some fine cockerels and good breeding pullets for sale. Address the

PARTRIDGE WYANDOTTE PARK, Lock Box 74, Burlington, N. C.

## CLUBB'S BARRED ROCKS

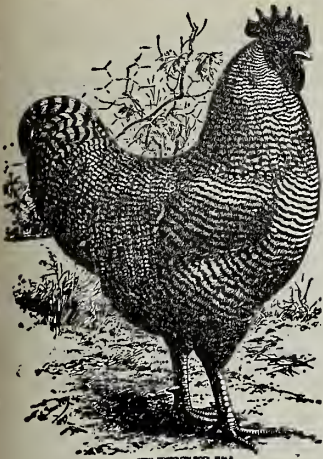
Are one of the greatest prize winning strains in America. If a show record proves the quality I certainly can give one that is unequalled. At Louisville, Ky., in the last 4 years I have won 15 first prizes out of 20; 12 seconds; 11 thirds, and 9 fourth prizes. Louisville, Jan. 1906, I won every 1st, two 2ds, four 3ds, and three 4ths. Louisville show is considered by the leading judges as one of the best in the United States—as good as Chicago, when speaking of quality.

At Frankfort, Ky., Dec., 1905, I won every 1st prize and every 2d but one in very strong competition. Judge Hewes said it was one of the strongest classes he had judged in many a day.

At the Kentucky State Fair, 1905, in very strong company, I won every 1st prize. In fact, every prize offered was won by me or some of my customers. At the Kentucky State Fair, 1906, I made a clean sweep, winning every prize offered—a remarkable victory never before accomplished by any breeder in this State. I have made four shows in the last year, winning every 1st prize and many of the smaller prizes. At Cincinnati, Jan. 1905, I won more 1st and 2d prizes than any one competitor. I have also won many specials, including some \$50.00 silver cups. My birds have never failed to win in the hands of my customers in some of the best shows in America. I have often been in competition with the best birds that could be bought in the East and would invariably win. We don't have to go East to buy, we have as good right here in the South as there is in the country. I try to improve my stock and I have by far the finest lot this season I ever raised. I am now prepared to furnish winners or fine breeders. Write your wants to

HARRY CLUBB

PLEASURVILLE, - - - KENTUCKY



ROYAL PLYMOUTH ROCK FINE  
WHITE MINORCA PLYMOUTH ROCK CLUB  
ESTABLISHED 1877

## BARRED, BUFF and WHITE PLYMOUTH ROCKS

White Wyandottes, White Minorcas, White Leghorns and Mammoth Pekin Ducks, \$3.00 each, \$7.50 for Trio, \$12.00 for Breeding Pen. : : : : : Catalogue Free.

## EAST DONEGAL POULTRY YARDS

EDWARD G. NOONAN, Proprietor, MARIETTA, PA.

## Single Comb Buff Orpingtons

MRS. J. A. MARTIN, Johnson City, Tenn.,

Breeds the Winners in S. C. Buff Orpingtons

1st and 3rd Cockerel, 1st and 4th Cock, 1st, 2nd and 3rd Hen, 2nd, 3rd and 4th Pullet, 1st, 2nd, 3rd and 4th Pen, at Knoxville, Tenn., show, January, 1906.

Eggs and Stock at Any Time.

## WALTER J. HUNTER, Johnson City, Tenn.

Breeds the Best in

### S. C. WHITE LEGHORNS

The foundation stock was the best and they have been bred scientifically. No better birds can be bought, north, south, east or west. Get your orders in early and shipments will be prompt.

## POULTRY FENCING

WRITE US FOR PRICES ON

ELWOOD WOVEN WIRE FENCE  
POULTRY NETTING, or any kind  
of Wire Fencing :: :: :: ::

## HARDWARE

McClung, Buffat & Buckwell  
KNOXVILLE, TENN.

### \$500 Accident Insurance Free

We have made arrangements, as stated in our last issue, with one of the strongest insurance companies of the United States whereby we can furnish to each and every one of our subscribers absolutely free a \$1,000 Accident Insurance Policy. We offer to all who subscribe now *THE INDUSTRIOUS HEN* for one year, a year's subscription to *Farming*, a beautifully illustrated thirty-page monthly magazine, 10x12 inches, by Doubleday, Page & Co., New York, a year's subscription to *The American Farmer*, and give them free an accident insurance policy for

### ONE THOUSAND DOLLARS

The policy is issued by the North American Accident Insurance Company of Chicago, a company with a surplus of over \$300,000, and protects you for one year without the payment of any dues, assessments or payments of any kind.

Should you be killed through any cause as set forth in the policy, the company will pay your wife or children ONE THOUSAND DOLLARS, or should you injure yourself in any of the ways set forth you will receive the amount stipulated below:

Loss of life .....	\$1,000
Loss of both eyes .....	1,000
Loss of both hands .....	1,000
Loss of both feet .....	1,000
Loss of one hand and one foot...	1,000
Loss of one hand .....	250
Loss of one foot .....	250
Loss of one eye .....	100

### Partial Disablement

Should you be injured so as to keep you confined to your bed or your house or away from your work, the company will pay you FIVE DOLLARS WEEKLY for a stipulated period, so that in making this offer free to our subscribers we are doing something that is of real service to you and your family. There is not a day you go to work on your farm, there is not a time you drive to town, and there is not a night you go to sleep when you are safe from the risk of accident. An automobile may fright-

## PARALYSIS

LOCOMOTOR ATAXIA CONQUERED AT LAST BY  
DR. CHASE'S BLOOD AND NERVE FOOD.  
Write me about your case. Advice and proof of cure  
FREE. DR. CHASE, 224 N. 10th St., PHILADELPHIA, PA.

en your horse, you may be run over in the road, your barn or house may catch fire and injure you, your horse may shy and throw you out, you may be injured on a street car, a railway station, or in an elevator, you may be drowned or you may be killed or injured in numerous other ways in which this policy would protect you.

If you wish to accept our offer all you have to do is to send us \$1.50 for which we will send you

Farming, one year, price .....\$1.00

American Farmer, one year, price 50

The Industrious Hen, one year....\$0

\$1.00 Accident Insurance Policy  
FREE.

Regular price of these three

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All sent for one year, with the free

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If your wife or children desire a policy and will secure us *three subscribers* to THE INDUSTRIOUS HEN at 50c. each and will send us \$1.50 with the three names we will send them one of the paid-up policies free, the only restriction being that we cannot sell more than two policies to any one person and they must be between the ages of sixteen and sixty-five.

#### Sign This Coupon

and mail it to us *today*. You do not know what may happen *tomorrow*.

To the Industrious Hen Co.

Knoxville, Tenn.

Gentlemen:

Please place my name on your subscription list for Farming, The Industrious Hen and American Farmer for one year, commencing with the next number. I enclose \$1.50. Please also send me free a fully paid accident policy as above.

Name .....

Age .....P. O. ....

State .....

#### Sixty Weeks for \$1.75

Don't put off until tomorrow the matter of subscribing for THE YOUTH'S COMPANION. The publishers offer to send to every new subscriber for 1907, who at once remits the subscription price, \$1.75, all the issues for the remaining weeks of 1906 free.

These issues will contain nearly 50 complete stories, besides the opening chapters of Hamlin Garland's serial, "The Long Trail"—all in addition to the 52 issues of 1907.

Whatever your age, six, sixteen or sixty, you will find THE COMPANION to be your paper. It touches every worthy interest in life—every interest that promotes cheerfulness, develops character, enlarges the understanding and instills ideas of true patriotism.

Full illustrated Announcement of THE COMPANION for 1907 will be sent to any address free with sample copies of the paper.

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THE INDUSTRIOUS HEN and the *Youth's Companion* will be sent one year for \$2.00. Send orders to THE INDUSTRIOUS HEN Co., Knoxville, Tenn.

**HOW  
TO GET  
MORE  
EGGS**

Help your hens. Feed them fresh cut green bone and you'll get more eggs—you'll get eggs in winter when eggs are worth while. The Standard Green Bone Cutter prepares bone right for feeding, quickly—easily. Prices \$8.50 and up; sold on guarantee—sent on trial. Write for catalog. Standard Bone Cutter Co., Milford, Mass.



## DINWIDDIE'S STANDARD AND BUSINESS BRED BARRED PLYMOUTH ROCKS AND S. C. WHITE LEGHORNS

Stock for sale, better this season than ever before. Standard Bred, fit to win; Business Bred for eggs; for size, Business fed on a balanced ration; raised on a free range. These are the guaranteed combined qualities of my birds. Write for prices, stating your wants. HUNDREDS TO SELECT FROM.

**J. A. DINWIDDIE, ROUTE 3, NEW MARKET, TENNESSEE**

## BARRED PLYMOUTH ROCKS

Line bred for 10 years. Winners at Cincinnati (big A. P. A. meeting); Nashville, Louisville, Princeton, Ind., and Owensboro, Ky. Thirteen out of 25 firsts, 9 seconds, 6 thirds, 5 fourths and 1 fifth, in competition with 825 Barred Rocks shown by 70 exhibitors from eight states.

Did your matings produce the quality that you expected? Did those eggs you bought hatch the kind of birds that you want to introduce into your flock? Don't you need one of those great big yellow legged, close, narrow, snappy, barred cockerels to help you out in the show room or to head your best pen? Then write to us. We can furnish birds with quality to suit for any purpose.

#### CLOVERBLOOM POULTRY YARDS

Benj. H. Baker, Mgr.

OWENSBORO, KY.

## WALKER'S

## Barred Rocks and White Wyandottes

We are now offering the best lot of birds we have ever raised, at a very low price, considering the quality. Write us for prices before buying elsewhere. We can also furnish Eggs at reasonable prices.

## WALKER BROS.

R. F. D. No. 1

MADISONVILLE, TENN.

## Doak's White Wyandottes

Greenwood Poultry Yards

E. L. DOAK, Owner

NASHVILLE, TENN.

First Pen headed by First Prize Cockerel. First Pen and first Pullet Winners Tennessee State Fair. :: :: Cockerel cost \$150 and Pullet \$75. Everything in yards from highest priced and highest scoring birds

Young Stock for sale and Eggs for Hatching. Write for Prices

## The QUEEN & CRESCENT ROUTE

Is over two hundred and fifty miles the shortest and twelve hours the quickest line from points reached through Chattanooga, Atlanta, Birmingham and Meridian to Shreveport, Dallas, Ft. Worth, El Paso and points reached through these gateways. Operating the most modern vestibule trains with through sleepers and dining cars to both Shreveport and New Orleans. For cheapest rates, schedules and other information apply to

C. H. SMITH, Gen. Pass. Agt.  
New Orleans, La.

R. J. ANDERSON, Asst. G. P. A.  
New Orleans, La.

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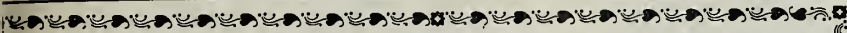
Meridian, Miss.

## WE WANT NAMES

We want you to send us the names and addresses of from ten to twenty-five persons living in the United States, each one having twenty-five hens or more. You can send us the names from any number of different post-offices. If you will send us these names we will send you TWO BEAUTIFUL COLORED PICTURES FREE. These pictures are reproductions of the most celebrated paintings in the world, and they are of high quality, and we know that you will be pleased and delighted with them; no pictures will be given for a list of less than ten names.

We want to send a free sample copy of a special issue of the HOME MONTHLY (The National Poultry Journal), to a lot of poultry raisers who are not now taking our paper and for that reason we want these names.

Send us immediately a list of at least ten poultry raisers and we will mail you, postpaid, ABSOLUTELY FREE, TWO REPRODUCTIONS OF THE WORLD'S FAMOUS PICTURES, beautiful colors, size 15x20 inches. Address: THE HOME MONTHLY, 20 North William St., New York.



## Here is the White Hill Poultry Farm

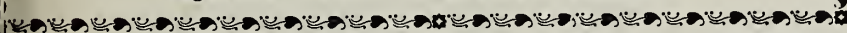
What have You for Sale? We Have the Very Best.

S. C. Buff Orpingtons, S. C. W. Leghorns and White Wyandottes

High quality and low prices is our motto. We can furnish you any number and at prices from \$1.50 to \$5.00 each for breeding and exhibition stock. Write us your wants; we do not leave our customers dissatisfied. Nothing but nice, healthy vigorous stock for sale. Eggs for hatching after Nov. 1st.

A. J. Lawson, Mgr. R. No. 7. Cleveland, Tenn.

Agents for Cyphers' Incubators and Brooders



## SINGLE COMB RHODE ISLAND REDS

If you want pedigreed line bred stock, write me. Yearling and two-year-old breeders for sale now. Young stock after September 1st. If you want birds to win in fast company, I have them. Will gladly furnish feathers correct in surface and under color to any new breeder in doubt as to color, etc. Correspondence solicited.

L. K. TERRELL, Birmingham, Ala.  
State V. P. American Rhode Island Red Club. 3rd V. P. National S. C. Rhode Island Red Club

## FERGUSON'S WYANDOTTE YARDS

High-Class, Pure Bred WHITE and SILVER WYANDOTTES for sale

Ask for information and prices

L. FERGUSON, Propr. :: New Middleton, Tenn.

# LEE'S 3 LEADERS

<h3>LEE'S EGG MAKER</h3> <p>Is well named. It is composed of ingredients that help hens lay more eggs. It does it by strengthening the hen's vitality, by building up a strong, rugged constitution and by furnishing her the necessary materials to make eggs and shell. It does not fatten her, but it increases her capacity to lay.</p> <p>Lee's Egg Maker is the best egg-making food you can feed your hens. It is fed by more poultry raisers than any other food on the market. Why? Because it "does the business."</p> <p>Lee's Egg Maker is largely granulated blood (deodorized), a concentrated protein food, which with the other ingredients forms an ideal combination for increasing the egg yield. Not a particle of grit, sand or cheap fillers are used to add weight or bulk. Every ounce of Lee's Egg Maker is there for the good it will do. Ask any poultryman who feeds it—or feed it yourself and watch results. Price 25c, 50c and \$1. Sold by dealers or sent direct.</p>	<h3>LEE'S GERMOZONE</h3> <p>prevents disease—keeps fowls in condition to ward off disease. A sick hen can't lay—dead chicks don't pay, and as profit is what you want an investment in a 50c package of Germozone is a wise move. Buy it of your dealer or send to us for it. Give it in the drinking water twice a week and keep your birds healthy. It Cures Roup, Colds, Frosted Combs, Canker, Swelled Heads, Inflammation of the Throat and all the aggravating disorders peculiar to winter weather.</p> <h3>LEE'S LICE KILLER</h3> <p>The liquid lice killer that works like lightning. No bother to use, no handling, greasing or dusting fowls—simply spray on roosts, nests—wherever there's lice or mites. Lice can't exist where Lee's Lice Killer is used. Price per can 35c, 60c, \$1. Lee's New Poultry Book and a "Mandy Lee" catalog sent free, write today.</p> <p>GEO. H. LEE CO., Omaha, Neb.</p>
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## The Sweetwater Show

One of the best shows in quality it has been our good fortune to attend was the show at Sweetwater, Tenn., November 22 and 23. Every bird in the show was a first class specimen and deserved a ribbon, but, as the competition was close in nearly all the classes many good birds did not find a place. There were nearly four hundred birds in the show which is good for a county show and especially when it is remembered that it was planned and arranged in less than two weeks. The eminent success of the show is due to Secretary John F. Childress, the White Leghorn man, who is a hustler in anything he goes out after. Judge F. J. Marshall placed the ribbons by comparison and spoke very highly of the show as a class.

The prize winners are:

Barred Plymouth Rocks—Cockerel, C. P. Hale; pullet, S. J. Randall; cock, hen and pen, one prize each, Walker Bros.

White Wyandottes—Walker Bros. took all the first prizes.

White Plymouth Rocks—D. P. Walker, all first prizes.

S. C. White Leghorns—John F. Childress, all first prizes.

S. C. Brown Leghorn—Cockerel, Walker Bros.; pullet, Walker Bros.; cock, Ernest McCampbell; hen, F. A. Carter; pen, Judson Corum.

S. C. Black Minorcas—H. L. Heiskell, cockerel, cock and pen; William Lambert, pullet and hen.

Rhode Island Reds—Best pen, C. D. Browder; best pair, John McSpadden.

Best Games, Will Jones; best Bantam, Gene Scruggs; best Pigeons, Charles Cowan; best pair Turkeys, Mrs. H. L. Heiskell; best pair Pekin Ducks, Mrs. J. R. Love.

Don't be afraid of overfeeding; find out how much your fowls need. There has been a lot of underfeeding of late on account of this cry of overfeeding in the press.—American Poultry Journal.

When the young stock is permitted to range the fields and the woods at will they will take on a muscular development that can not be obtained by those confined. It is nature and nature has its limits upon which it insists and these limits must not be ignored.—Inland Poultry Journal.

### Why So Sure? FINE POULTRY

It's made on the right plan, it works right. It brings best results to the beginner as well as the experienced poultry raiser.

## The Successful

is the nearest of all the out and out automatic machines, both Incubator and Brooder. They can be depended upon under all conditions to hatch the most and brood them the best. 100 pens standard fowls. Incubator and Poultry Catalog FREE. Booklet "Proper Care and Feeding Small Chickens, Ducks & Turkeys," 10c. 50c poultry paper 1 year, 10c. Des Moines Incubator Co., 267 Second St., Des Moines, Iowa.



## THE NEW AMERICAN STANDARD OF PERFECTION

Latest Edition, Revised and Enlarged  
Superbly Illustrated

Giving a complete description of all recognized varieties of fowls, as revised by the American Poultry Association at its twenty-eighth annual session. Price \$1.50.

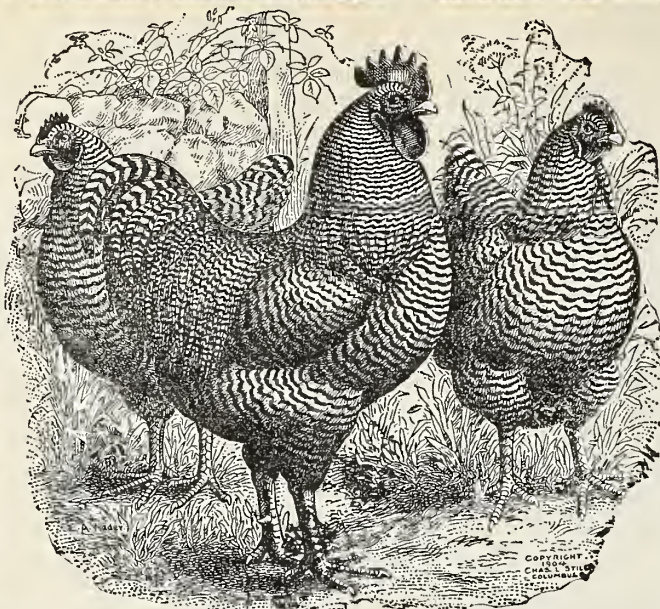
No poultryman can afford to be without a copy of this book.

We will send you a copy postpaid and include a year's subscription to The Industrious Hen for \$1.75.

This will apply to new subscribers as well as to renewals. Send all orders to

THE INDUSTRIOUS HEN CO.

KNOXVILLE, :: TENNESSEE



# THE "RINGLET"

## THE WORLD'S FAMOUS Barred Plymouth Rock

The Kind that Win under such Judges as  
F. J. Marshall and Loring Brown.

The kind that win in such shows as the one held in Nashville, Tenn., January, 1906, where none but the best got a place of any kind, and even then many fine birds failed to get on the inside of the ribbons, even the yellow ribbons. Yet in this great show I won on my Famous Ringlet Pullets both 1st and 2nd, having eight Pullets in the show, scoring from 92½ to 95 points, having one 95, one 94½ and four 94 point Pullets in one great show like this one.

For this reason and with these facts known to the entire South, I will say without fear of contradiction, I have the

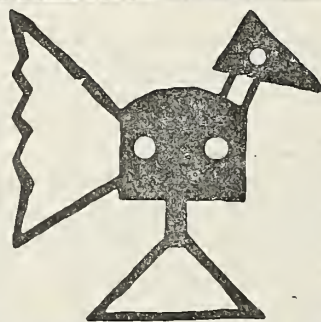
### STRONGEST LINE OF PULLETS IN THE SOUTH TO-DAY

At Huntsville, Ala., December, 1905, I won ck. 1st; kcl. 1, 2, 3, pullets 1, 2, 3, pens 1, 2, with F. J. Marshall, Judge. I can and will furnish winners for any customer for the coming season. I can furnish cocks, cockerels, hens or pullets fit to show in any competition. Will make prices right, with quality considered, will guarantee satisfaction or your money back. Write your wants and mention the dear HEN.

**W. T. DARBY, 219 Military Road, Florence, Ala.**

#### Feeding Hens For Profit.

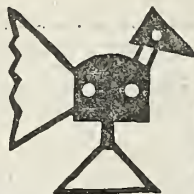
The right proportion of food for laying hens can be scientifically ascertained, but the relative question of the cost of different foods must also enter into the consideration. According to some authorities, fowls should receive about 60 per cent of grain, 15 per cent of flesh, and 25 per cent of vegetables, says an exchange. This proportion is not absolute, but relative. It serves more as a guide to the poultryman than as an infallible rule. Now the question of grain must be decided according to the locality and cost of the various grains. Where beans or peas can be obtained cheaper than grains, they take the place of the latter very acceptably, if ground and fed in an attractive form. Ground beans or peas, mixed with corn meal, and bran produce very desirable results. In the wheat-growing sections that cereal is the best and cheapest to feed, as there is no feed better for egg-laying. Oats is a food that is not fed sufficiently to poultry. If more oats were fed, there would be lots more eggs and healthier stock. Corn, we know, has the greatest amount of fat-producing material, and oats more muscle-forming material. Beans, however, exceed any of the grains in muscle forming material, containing 38 per cent compared to 22 per cent in oats. Lately, the writer has been feeding quite a quantity of Kaffir corn, both to old fowls and chicks, and finds it wholesome and cheap. —Exchange.



### A POOR HEN WITH ONE CHICK

ARE THE CERTAIN RESULTS  
OF NOT USING

MANSFIELD'S  
MAGIC POULTRY FOOD  
AND EGG PRODUCER.



#### SIXTEEN YEARS EXTENSIVE AND ACTUAL TEST

Has proved it to be the very best and most reliable tonic and conditioner for fowls known on the market. For promoting the health of poultry and stimulating the production of eggs it has no equal. Thousands of references on file from prominent poultry raisers from California to New York. Use MAGIC POULTRY FOOD and make your occupation pleasant and profitable. 2 pound trial boxes 25c, 10 pound bags 80c, 25 pound buckets, \$2.

#### WILL CURE AND PREVENT DISEASE

Guaranteed or money refunded. Write for free book and beautiful pictures. Correspondence from poultry raisers solicited. BEWARE OF IMITATIONS. Address

**MAGIC FOOD CO., - Chattanooga, Tenn.**



### S. C. BUFF ORPINGTONS

I have a few pens of choice birds that I will sell.

**A. C. COCHRAN**

EGGS IN SEASON.

Knoxville, Tenn.

**? Do You Need Any Printing ?**  
If so, write for samples and prices to  
**THE INDUSTRIOUS HEN, Knoxville, Tenn.**

WM. B. SHELTON,  
Deputy County Court Clerk.

WATKINS CROCKETT  
Cashier Union Bank & Trust Co.

## EASTLAND POULTRY YARDS

—BREEDERS OF—

### PRIZE-WINNING WHITE PLYMOUTH ROCKS (Exclusively)

At the recent Alabama State Fair, held at Birmingham, we made "A Clean Sweep" in a show of 3000 birds.

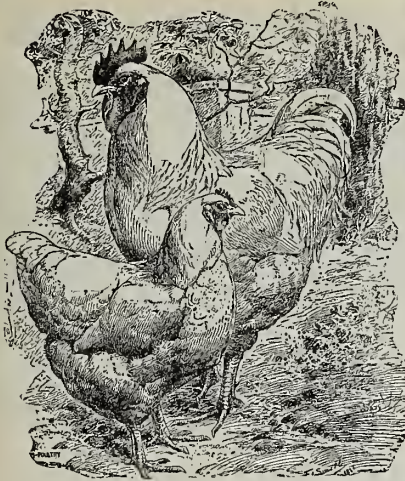
Our winnings were: 1st and 2nd cock (we exhibited two only); 1st cockerel (we exhibited one only); 1st, 2nd and 3rd hen; 1st, 2nd and 3rd pullet, and 1st and 2nd pen. Also sweepstake prize for best display in American class.

We have a grand lot of young birds for sale, at reasonable prices, the majority of them being from first prize winners at the Nashville, 1906, January show.

If you want us to help you out on your coming show, or want some good birds for breeders we can please you. We guarantee satisfaction in all our dealings, or money refunded.

Please write us your wants and let us figure with you.

Address: **EDGAR AVENUE AND GALLATIN PIKE, NASHVILLE, Tenn.**



Cooper's Rose Comb White Leghorns  
Lay the Eggs and Win the Ribbons.  
**SAM M. COOPER,**  
Fountain City, Tenn.



R. C. Brown and S. C. White  
**LECHORNS**  
..AND..  
S. C. Black Minorcas

#### FINE PENS TO SELL

I breed to lay, winners in the best shows. Cockerels from hens that layed 253 eggs in 1904. These birds will improve your strain in laying, as they are bred for this purpose. Write me.

**FRED AXLEY**  
SWEETWATER, TENN.  
Route No. 5

#### BRIEF MENTION

S. A. Hummell, Freeport, Ill., advertises forty-five leading varieties of poultry and water fowls. Send for his handsomely illustrated catalog.

At the recent Tennessee State Fair, Nashville, Tenn., J. C. Fishel & Son refused an offer of \$250 for the first White Wyandotte hen at that show.

The 1906 Colony Company, Folkstone, Ga., offers some special inducements to prospective settlers in the South. Look up their special offer elsewhere.

G. W. Miller, Russellville, Tenn., offers several standard-bred varieties in this issue. Look up his ad. and write him as he will give you fair treatment.

R. L. Castleberry, Oswego, Kansas, first prize winner at World's Fair, Herald Square, Kansas City and Chicago, says: "THE HEN is bringing in the inquiries all right."

The catalog for the Oklahoma State Show at Guthrie, Okla., December 10 to 15, is at hand and the prospects are good for a fine show. L. F. Loverty, Secretary, will be pleased to furnish information.

The Virginia Poultry Association, Richmond, will hold their annual show January 22, 1907. The premium list may be had by addressing F. S. Bullington, Secretary, Box 328, Richmond, Va.

Oakhill Poultry Yards, F. R. Noble, proprietor, Nashville, Tenn., breeds strictly high-class Black Langshans. They have some good stock to sell and will be pleased to quote you prices on the right kind of birds.

With an entry of seven birds and no pens, Wilber Bros., Petros, Tenn., won on S. C. W. Leghorns at the Charleston, S. C., show, November 5 to 10, 1st cock, 1st and 2nd hen, and 2nd pullet and close on 1st pullet.

Bonham, Tex., will give its first annual show December 13th to 15th, and with \$10.00 sweepstakes prizes for highest scoring male, female and pen, should have a well-filled show room with high class birds. T. J. Humphreys, Secretary.

E. L. Doak, the White Wyandotte man, Nashville, Tenn., has just bought of J. C. Fishel

## You Can Get More Eggs And Save Feed Bills

EVERY atom that hens use in making eggs, comes from the food they eat. They can't get it anywhere else.

That being true, you must, if you expect eggs in abundance, feed foods rich in egg-making materials.

Analysis shows that not only eggs, but the bones, the lean meat and the feathers of fowls are all made up of what the professors call "protein."

Hence, fowls must have protein if they are to give you the best results.

But protein is found only in small quantities in most grains and vegetables, but in large quantities in animal food.

That's why all fowls crave worms and bugs. Instinct teaches them that they need such food.

Of course, they can't catch "the early worm" in winter or when they are yarded, so you must give them this protein in some other form.

The best substitute is fresh-cut, raw, green bones—the trimmings from the meat market, with meat and gristle adhering to them.

In its raw state it contains exactly the same food elements as the worms and bugs. It contains over four times as much protein as grain, and is

rich in lime and other egg-making materials.

That's why fowls like it so well and why it doubles the egg-yield, increases fertility, makes larger hatchlings and stronger chicks, develops earlier broilers and layers and makes heavier market fowls—

Because it "balances the ration" by supplying what is most scarce in grains. You can't get the best results without it.

Green bone is easily and quickly prepared, with

### MANN'S LATEST MODEL BONE CUTTER

We want you to try this machine. You don't have to buy it—just try it first.

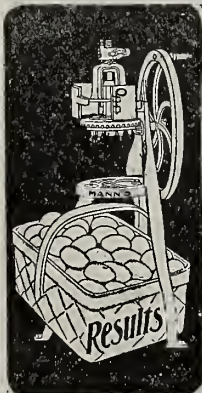
To prove to you what it will do, we will send you any one you may select from our catalogue on **10 Days Free Trial**

(No Money in Advance.) It cuts all bone with all adhering meat and gristle, never clogging and wasting nothing. It automatically adapts itself to your strength, so that any one can use it.

It is strong, durable and does not get out of order.

But try it! Send today for catalogue—select the machine you want to try—we'll do the rest.

**F. W. MANN COMPANY,**  
Box 121 Millford, Mass.



Try This Free  
No Money in Advance

& Son., Hope, Ind., seven fine White Wyandotte hens for breeders, the price paid being \$275.00. This shows that birds of quality bring the prices.

Send four cents in stamps to the J. Stevens Arms & Tool Company, Chicopee Falls, Mass., for 140 page illustrated catalog. Embodies detailed descriptions and furnishes the most complete number of Xmas suggestions in the firearm line.

Deery Farm, W. A. Tanner, Bristol, Tenn., offers some especially fine S. C. Buff Orpingtons. We know Mr. Tanner's stock to be excellent and he is himself a business man that you can safely entrust your business to and get prompt attention.

James M. Hobbs, 1521 Mount Royal Ave., Baltimore, Md., advertises some special prices in turkeys and leading varieties of poultry this month. He quotes you the prices in his ad., published elsewhere and you can order from the ad. safely as he is thoroughly reliable.

A very attractive catalog in two colors of the Monroe, La., exhibition, December 6th to 8th, 1906, is to hand. It is artistic in every detail and bespeaks the progressiveness of the Monroe breeders. Write to E. S. Eby, the accommodating Secretary, for a copy of this nice list.

The official premium list of the Greenville, S. C., first annual show on January 15 to 18, 1907, is neat and well-arranged. The prospects are fine for a very excellent show at that enterprising city. Write the Secretary, W. M. McDavid, Greenville, S. C., for list and further information.

The South Kentucky Poultry Yards, Rev. T. D. Moore, proprietor, Hopkinsville, Ky., is justly noted for the exhibition and laying qualities of their Cornish Indian Games and Barred Plymouth Rocks. These yards were established in 1892 and have won ribbons at the leading shows of the country.

F. L. Snyder, Lexington, Ky., breeds the "Bulldog Strain" of Mottled Anconas and White Wyandottes. His strain is like its name implies—hardy and tenacious. Mr. Snider will

**H. B. HENRY**  
GUNTERSVILLE, ALA.  
Breeder of  
**S. C. BROWN LEGHORNS**  
**STOCK FOR SALE**  
**PENS MATED JAN. 1st**  
**EGGS FOR HATCHING, \$2 FOR 15**  
Alabama State Fair, 1906—1st Cockerel, 1st and 2d Pullet, 1st Hen, 1st Pen.  
Columbia, Tenn., Nov. 27-30—Four Blues, Three Reds, Two Yellows.  
**—BLOOD TELLS—**

## 1907 CATALOGUE FREE.



Describes and gives prices of forty-five leading varieties land and water fowls and eggs. Every person interested in poultry for pleasure or profit should send their address for this book.

S. A. HUMMEL, Box 39, Freeport, Ill.

# THE AGRICULTURAL EXPERIMENT STATION

OF THE UNIVERSITY OF TENNESSEE

Carries eight varieties of thoroughbred birds from whose pens we are able at all times to furnish eggs, trapnested and true to breed.

### Pen No.1—White Wyandottes.

Headed by a fine cockerel true to type and color and properly mated to twelve handsome females. These birds possess both beauty of form and color and have proven themselves prolific egg producers. Up to weight and pure white. Eggs from this pen \$3.00 per 15.

### Pen No.2—Barred Rocks.

No finer male can be found in the South than the one that heads this pen. Typical in shape and fine in station with the real blue barring so pleasing to the eye. He is most excellently mated to only four grand females. Eggs from this pen are \$5.00 per 15 straight.

### Pen No.3—Barred Rocks.

In this pen are twelve exceptionally fine hens mated for best results to most excellent blocky birds of good color. They are up to weight and good egg producers. Eggs \$3.00 per setting.

### Pen No.4—White Rocks.

The cock at the head of this pen is typical in shape. He is grand in size and color, and mated with due regard for results to twelve hens specially selected for size and vigor. Eggs \$3.00 per 15.

### Pen No.5—S. C. B. Orpingtons.

The S. C. Buff Orpington has many admirers and no one could fail to admire this handsome pen of twelve females, headed by a magnificent cock. The mating has been made with due regard to results. They are fine layers and excellent table fowls. Eggs \$3.00 per 15.

Eggs are trapnested, numbered and dated, absolutely fresh, selected with the greatest care, properly packed and shipped same day order is received.

We can furnish superior stock and eggs in limited numbers from any of the above varieties, and can fill orders for any variety of stock or eggs. Write us your wants. Orders booked now for future delivery.

## AGRICULTURAL EXPERIMENT STATION

Poultry Department,

KNOXVILLE, TENN.

# White Plymouth Rocks

Bought those White Rocks yet? If not let me figure with you. I have 40 beautifully hatched Cockerels and 75 Pullets bred from prize winning birds at Frankfort, Ky., State Show, Nashville, Chattanooga and Franklin, Tenn., the past season for sale. These youngsters are simply great and will make the best of them step around at the coming fall shows. Better order early before they are all picked over. I will also sell 20 of my last season's breeding hens. All birds shipped on approval.

G. E. MANN

R. R. No. 10  
(Porter Pike)

### PRICES:

2 Cock Birds \$20 each

### GRAND ONES

Hens	-	5	"
Cockerels	-	5	"
Pullets	-	3	"

Nashville, Tenn.

## HEADQUARTERS FOR CHICKEN FEEDS AND SUPPLIES

Write Us for Samples and Prices

EHRHARD & WAGGONER

105-107 Third Ave., South. Long (Main) Phone No. 126, - Nashville, Tenn.



## INCUBATORS ON 30 DAYS TRIAL

Without paying us one single cent in advance. Our Standard machines are used and indorsed by thousands of successful poultry breeders. All the features of merit found in other machines worth having are combined in ours, which makes them the very best all-around business hatchers in existence. Large, handsome catalogue, with building plans, etc., free to intending purchasers. Address THE STANDARD F. C. INCUBATOR CO., Dept. E, Rochester, N. Y., U. S. A.



# MODEL Incubators and Brooders

Constitute an Equipment that will Enable you to make your Poultry Business a Financial Success

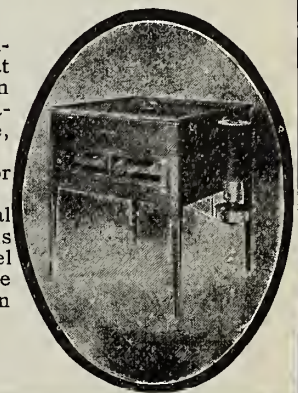
Whether you want a small poultry business or a large plant, you want it to be a commercial success. You want the best equipment and the best advice you can secure. What you attempt to do, do right! In any business, the best tools are necessary to success. In the purchase of your equipment, you may save on the first cost by buying low grade incubators and brooders; but your experiment will show a loss not only in the price of the machine, but in the wasted eggs and the entire loss of the season.

The Model Incubators and Brooders are the cheapest equipment for the amateur or for the expert, because their use makes success possible.

The success of the big Model Poultry Farm is in the greatest measure due to these real hatchers and real chick mothers. Here we raised over 20,000 head of poultry in six months from the time the farm was bought. Twelve thousand chickens were raised in Model Colony Brooders. This means more chickens were raised in portable equipment than have been raised on any farm under any conditions during one short breeding season. Your own plant may be equally successful. Let me tell you how to make money out of poultry.

Catalogue is mailed free on request.

**CHAS. A. CYPHERS, 332 Henry St., Buffalo, N. Y.**



## Schuyler's In-to-Date and Bred-to-Pay White Wyandottes

Have excellent records as steady winter layers. Line bred Cockerels—big vigorous fellows—\$4, \$5, \$6 each. Breeding Pullets \$3.50 to \$5 each. Good serviceable yearling hens \$3, \$4, \$5 each.

**SPECIAL OFFER GOOD FOR A LIMITED TIME ONLY**

4 Breeding Hens and a good Cockerel for \$12.00, real value \$16.00. My need of room creates your opportunity to save \$4 cash money. Don't neglect it and be sorry for it afterwards.

Exhibition birds a matter of correspondence. Write

**COLFAX SCHUYLER (Box 1-H) Jamesburg, N. J.**



## Farmer's Friend Nest and Brood Coop

RAT, MINK, WEASEL, LICE, MITE AND VERMIN PROOF

Made of galvanized steel plate and will last for years. Sanitary, there being no place to harbor disease germs. Easily taken apart and cleaned. The coop has three sliding doors: one of rods that keeps the mother in; one of wire cloth that ventilates it and keeps out rats and minks; a solid door that regulates the ventilation and keeps out rain and cold. We also make metal Exhibition coops.

Agents wanted in every county.

**C. HOSKINS & CO., Dept. I, 318 State St., Quincy, Ill.**



be pleased to hear from you and will sell you good birds at reasonable prices, considering the high class of his strain.

J. Walter Hunter, of Johnson City, recently purchased a fine pen of DeGraff's Rhode Island Reds that he will have on exhibition along with other birds at the Knoxville show. Mr. Hunter is the possessor likewise of some handsome Collies that he is very proud of, one of which will be shown shortly to our readers.

The Forest Park Farm, C. W. Smith, proprietor, Williamsburg, Va., offers some first-class cockerels and pullets in Buff Orpingtons and S. C. R. I. Reds at special prices. Their stock is well known for its excellency and you will make no mistake in placing your order with them. Look up their ad. and write them for prices.

T. A. Pope, Franklin, Tenn., has an April hatched Minorca pullet that is a record-breaker. Writing us under date of November 9, he states that she has a flock of chicks then two weeks old, and if any one doubts that he has the goods to show. That looks like the best and quickest proposition of the season. If you have one as good or even better, let us hear from you.

The Cornish Indian Club of America offers four splendid silk ribbons, one each for best cock, best cockerel, best hen and best pullet to exhibitors at any show in the United States, where three or more members are competing. Chas. S. Brent, President, Oconomowoc, Wis.; Wm. Sawyer, Jr., Secretary and Treasurer, Owosso, Mich.

The Bonnie View Poultry Farm, Rev. R. E. Travis, proprietor, Goodlettsville, Tenn., writes

## ROCKDALE POULTRY FARM

W. O. ROUDABUSH, Proprietor, ROCHELLE, VA.

## White Plymouth Rocks, Mammoth Bronze Turkeys and Pekin Ducks

Our stock this season is as good as can be found any where. Write us your wants and we will take pleasure in quoting prices, that, quality considered, cannot be beaten. All stock shipped on approval. Our satisfied customers are our best advertisements.

that they have some very promising youngsters in R. I. Reds, White Rocks, and White Wyandottes. The birds are fed and handled in a very systematic manner, as Dr. Travis has outlined for our readers in a recent article. Whoever entrusts business to the Bonnie View Yard may be sure of good, vigorous stock.

The Bristol Poultry Association will hold their fifth annual exhibition at Bristol, Va.-Tenn., on January 2, 3, 4 and 5, 1907. Judge George O. Brown, of Baltimore, will place the ribbons. This association is in a thriving condition, and the poultry folks around the Border City thoroughly determined to make this coming show a record breaker. Get a catalog from the enterprising Secretary, M. D. Andes, Bristol, Tenn.

More than 600 entries have already been made for the annual show to be held in January by the Spokane Poultry Association, Spokane, Wash. H. C. Blair, Secretary of the association says there will be entries from Puget Sound and cities on the Pacific coast and that every chicken raiser in the Inland Empire will be represented. There will be a number of big prizes for fancy poultry and purses for the sweepstake events.

Poultry raisers, who are not already in possession of it, will find a valuable aid to their business in "Poultry Diseases," published by the G. E. Conkey Co., of Cleveland, Ohio. This book was formerly sold at the regular price of 25c and an examination reveals that it is well worth the money. The Conkey people are now distributing it among poultry raisers gratuitously. See the condition named at the close of their advertisement in this paper.

There is great enthusiasm in Cleveland over the show which is to be held in January. A great many cups have been secured and the prizes throughout are attractive. The date is January 14th to 19th at Gray's Armory. The Poultry Judges will be Charles McClave, Thos. F. Rigg, Eugene Sites and M. S. Gardner, and the Pigeon Judges, L. A. Jansen and Charles Lang. Entries close January 7th. Obtain Premium List from F. L. Gruelch, Secretary, 9902 Woodland avenue, Cleveland, Ohio.

Jones, the Wyandotte man, Paducah, Ky., won on Wyandottes all firsts in the classes and every second but two. Silver Wyandottes, cock first and second, hen first, second and third, cockerel first and third, pullet first, second and third, pens first and second. Golden Wyandottes, cock first and second, hen first, second and third, cockerel first and second, pullet first and third, pens first and second. Fifty dollar special for best display in Wyandotte classes, winning more prizes than all competitors in the classes.

A thirty-two page book on the care of poultry is now being distributed by Cugley & Mullen, and it is one of the most valuable books ever offered. The author is evidently familiar with the diseases of poultry and has undoubtedly struck the right chord in prescribing a remedy for each disease. At least it appears to us as one of the best methods, as it is very difficult to treat several diseases with one remedy. "The Life Saver" book describes minutely the symptoms of each malady and prescribes the proper remedy and treatment for each.

Mr. J. Robert Livingston, late Superintendent of the Poultry Department of the Biltmore Estate, spent a day recently with THE INDUSTRIOUS HEN. It is regretted that Mr. Livingston has seen fit to sever his connection with this institution, for he has certainly proven in the years of his superintendency his ability as a poultryman. The South needs more men like Mr. Livingston, who can make a success of the fancy as well as the commercial side of the business. Our readers may hope to hear of his even greater success elsewhere through these columns.

F. S. Bullington, Richmond, Va., reports the following winnings at the State show held in Richmond, October 9-13, in strong competition on his Blue Ribbon Strain of White Orpingtons, 1st and 2nd Cock, 1st and 2nd Cockerel, 1st, 2nd, 3rd Hens, 1st, 2nd, 3rd Pullets, 1st Pen old, 1st Pen young, practically every prize that was offered, including all specials, silver

**Hatch Chickens by Steam**  
with the  
**EXCELSIOR**  
**INCUBATOR**  
or **WOODEN HEN**  
Economical and perfect hatching.  
Absolutely reliable and self-regulating. Thousands in use to-day.  
GEO. H. STAHL, Quincy, Ill.



## Let Me Quote You a Price on a **CHATHAM** Before You Buy an Incubator

It will take one penny for a postal, and a minute of your time, to write for Special Prices on 1907 Chatham Incubators and Brooders. No matter what kind of a machine you have in mind—no matter where you intended buying, or when—**TODAY** you should send me a postal and get my catalog and prices.

My book will tell you how good Incubators are made—will tell you what you ought to know about poultry business—will tell you about brooders—will post you on the best way to make money out of poultry—and my prices on Chatham Incubators and Brooders will show you how to start in the poultry business for a small amount of money.

## Chatham Incubators Sold on 84 Days FREE Trial

freight prepaid—guaranteed 5 years. That's the story of the celebrated Chatham Incubator. We sell them on trial, pay the freight, and guarantee them for 5 years. With proper care, they last a lifetime. I am going after the Incubator business of the country this season, and I intend to get it—on great, big value in the machine and a very low price. Chatham Incubators are the best possible to make. They are tested, and known to produce the largest percentage of strong, healthy chickens. We have two immense factories—one in Canada and one in the United States—and run our own experimental station where a battery of Chatham machines are in operation every day in the year, under the care of expert poultry men. If you are most ready to buy a machine now, put it off for a day or two, until you can get my prices and catalog—then decide on what to buy.

We have warehouses in all the leading trade centers—where Chatham Incubators and Brooders are kept in stock—insuring prompt delivery. Depend on this:—With the immense amount of money—\$500,000—that we have invested in the Incubator manufacturing business, we are sure to give our customers every improvement worth having in the Chatham Incubator. We can afford it, because that is what brings us the largest business in the world. That is all I can say in an advertisement. I invite you to write for my prices and book. Address me personally.

**MANSON CAMPBELL**

President Manson Campbell Co., Ltd.  
315 Wesson Avenue, DETROIT, MICH.  
If you live west of the Mississippi River,  
address me Box 395, Topeka, Kan.



Guaranteed  
Five Years

## THE WORLD'S RECORD BY THE WORLD'S BEST



We do not boast of winnings made at County Fairs nor refer to records so old they are musty. We point only to victories won in large shows, where competition was strong and where America's leading judges officiated.

### LOOK AT THIS RECORD MADE BY US

and compare it with that of any breeder East, West, North or South. Cincinnati, Ohio, January, 1906, The American Poultry Association Show, T. E. Orr, Judge. In the largest class and the strongest competition ever brought out in this city we won 1st Cockerel, 1st Hen and 3rd pen, special for best cock, hen, cockerel and pullet, and for best display. Indianapolis, Ind., February, 1906, W. C. Pierce, Judge, 1st and 2nd Cock, 1st and 2d Hen, 1st and 2nd Cockerels, 1st and 2nd Pullets, and 2nd and 3rd Pens, and three silver cup specials.

Again at Indianapolis, Ind., State Fair, September, 1906, Frank L. Shaw, Judge, 1st, 2nd and 3rd Cocks, 1st Hen, 2nd Cockerel, and 1st Pen.

At Nashville, Tenn., October, 1906, F. J. Marshall, Judge, in competition with 253 White Wyandottes, representing seven different states and conceded to be the best White Wyandotte show ever held in the South, we won 1st and 3rd Cocks, 1st, 2nd and 3rd Hens, 1st and 2nd Cockerels, 1st and 2nd Pens. This record surely sustains our claim of

### THE WORLD'S BEST WHITE WYANDOTTES

We have 1,500 birds for sale and the best we ever raised, and they are good enough to win in any show. We will not exhibit during the winter of 1906, but will devote our time in fitting birds for our customers. Our Catalogue, containing reproduction from oil painting of our Prize Cock and Hen at many of these shows mentioned, together with a world of information on this popular variety, mailed for 10 cents. If you want show birds or breeders, we can furnish them. Please write us.

J. C. FISHEL & SON,

24 Jackson St.

HOPE, INDIANA

**WHITE ROCKS.**  
Fishel's best on Earth

**BARRED ROCKS.**  
Thompson Ringlets

## YOUNG AND OLD STOCK FOR SALE

Can Furnish Show Birds to Win in Fast Company.

I won 26 prizes at Columbia, Nashville and Franklin last season and 6 at Tenn. State Fair, Oct. 8 to 13. All on Birds raised on my own yards. Satisfaction or your money refunded.

Eggs in Season. Circular Free.  
**J. O. NORTON,**  
East Station. NASHVILLE, TENN.

**HILL TOP POULTRY FARM**  
Breeders of the Winners in  
**S. C. BUFF ORPINGTONS**  
Buff Cochins, Black Minorcas  
**EGGS AND STOCK AT ANY TIME**

PRICES OF EGGS—Buff Orpingtons \$2.50 per 15, Black Minorcas and Buff Cochins \$1.50 per 15.

**G. W. MILLER, Russellville, Tenn.**

**OAK HILL POULTRY YARDS**  
Breeders and exhibitors of  
**PRIZE WINNING BLACK LANGSHANS**

My birds win for me and will win for you. Stock and eggs for sale in season. Order now and save delays.

**F. R. NOBLE, Prop.,**  
R. R. 7, Station B Nashville, Tenn.

**Fleming's** Barred Rocks, White and Golden Wyandottes  
again victorious at the great North Carolina State Fair Oct., 1906, they winning eight prizes. The grandest lot of youngsters I ever raised. \$2.00 each, \$5.00 trio.

**JOHN H. FLEMING**  
Route 1 Warren Plains, N. C.

## FOR SALE

A few grand Buff Cochins Cockerels. Will sell cheap to dispose of surplus stock. Won 1st and 2d cockerel and 1st and 2d pullet at Virginia State Fair, Oct., 1906; also 1st cockerel and 1st pullet at Virginia-Tennessee Poultry Show, Bristol, Feb. 1, 2, 3, 1906. Price \$3.00.

**MRS. G. H. DUGDALE**  
Roanoke, :: :: Virginia

**LELAND POULTRY FARM**  
SPRING HILL, TENN.

S. C. Buff Orpingtons, Barred Plymouth Rocks, S. C. Brown Leghorns. Fine lot young birds from all strains for sale. Eggs in season. Must sell. Write for prices.

**MAYES HUME :: PROPRIETOR**

**LOCOMOTOR ATAXIA**  
AND PARALYSIS CONQUERED AT LAST BY  
**DR. CHASE'S BLOOD AND NERVE FOOD.**  
Write me about your case. Advice and proof of cures  
FREE. DR. CHASE, 224 N. 10th St., PHILADELPHIA, PA.

cup given for the best White Orpington Cock, Cockerel, Hen and Pullet. Also the sweepstake special for greatest number 1st prizes on any one breed. Pretty good showing.

We direct the attention of our readers to the Darling Poultry Food Advertisements, which have again appeared in our columns. We welcome the Darling advertisements for they relate to goods of the known substantial kind. They get right to the "meat" of the matter, as it were, for the Darling & Company make it a specialty to handle meat scraps, meals and bone products which are recognized by all poultry people as being the best kinds of foods that can be supplied. A catalog may be had free by addressing the company at either its Chicago or New York office.

The Columbia Poultry and Pigeon Association of Washington, D. C., will hold its first show in Masonic Hall, corner Ninth and F streets, N. W., January 22d to 26th, inclusive, 1907. A very attractive premium list will soon be out, and no fanciers of the feathered tribe can afford to miss this great show. We will have the best cooping, and good judges to place the awards. The officers are George E. Howard, President; John R. Risdon, of Hyattsville, Md., Vice-President; Calvin Hicks, of Rockville, Md., Secretary; Washington Waters, of Rockville, Md., Assistant Secretary; Edward S. Schmid, Treasurer. For premium list and entry blanks address Calvin Hicks, Secretary, Rockville, Md.

The Indiana Fanciers' Association will hold their annual show February 2-8, as originally planned. There was talk of tearing down Tomlinson's Hall, in order to erect the new Coliseum and work was expected to begin not later than October 1, but the city officials have decided to make no changes in the building until the close of the present show season. The poultry fanciers have been advised of this fact and instructed to go ahead with their exhibition.

The American Kennel Club meets with the poultrymen in Indianapolis and this will be one of the big shows of the year. The premium list will be ready, December 15. Theo. Hewes, of Indianapolis, is the president, to whom all inquiries for premium list should be addressed.

We are in receipt of a bulletin from the Central Experiment Farm, Ottawa, Canada, on the "Breeding, Feeding and General Management of Poultry," by A. G. Gilbert and Victor Fortier, manager and assistant, respectively. This bulletin is thorough in detail and illustrates and exemplifies in such a manner that one can get a great amount of practical information from reading it, and can be had by addressing a request as above. In this connection we desire to say that this office is in possession of information that it would be glad to impart to some one qualified to take charge of an experimental poultry plant in the South on a small scale with the prospects of building it up. An excellent opportunity for the right man. Write, stating age, experience, etc., to the Editor of THE INDUSTRIOUS HEN.

The American White Orpington Club will offer at the Madison Square Garden show, New York, January 1-5, 1907, special prizes on White Orpingtons, as follows: Handsome cup for best American-bred White Orpington Cock, Cockerel, Hen and Pullet. Special club ribbon

## BUTLER'S CHAMPION S. C. RHODE ISLAND REDS

At Columbia, Tenn., November 25 to 30 (Marshall, judge), in class of 250 Reds, largest display of Reds ever in South, won 1st Cock over champion Cock in U. S. (This champion Cock is a typical bird and won North and East, and was purchased by Southern breeder). This shows that I have the best in the world.

This Cock of mine has never been beaten. Won at Nashville last show 1st Cockerel. Montgomery, Ala., November, 1906, 1st Cock. I have him mated to 12 of his Pullets. Am booking orders now for eggs, 15 for \$5.00. I have 10 of his Cockerels for sale, extra fine.

**W. N. BUTLER,**  
R. R. No. 24.  
CARTER'S CREEK, - - - TENN.

## CAPON TOOLS



## AMERICA'S BEST

Utility and Exhibition  
**White Wyandottes**

Eggs and Stock for sale  
at all seasons

**M. D. ANDES**  
BRISTOL, - TENNESSEE



**\$500  
BUYS  
A  
FARM  
IN  
VIRGINIA  
Complete!**

With comfortable new three-room cottage like Cut. These 25 acre poultry, fruit and vegetable farms are only two miles from Waverly, Va., a modern little town on the N. & W. Ry., midway between Norfolk and Richmond. Climate, water and markets for produce cannot be excelled. Write for further information and for lists and booklets showing farms and plantations from \$10 per acre up. **F. H. LaBAUME, Agt. & Indl. Agent, Norfolk & Western Ry., Box 42, Roanoke, Va.**



## D. O. Dorr's Ointment

The Poultryman's Medicine Chest

Guaranteed to CURE Sorehead, Roup, scaly legs, cuts, and wounds, and KILLS fleas and lice. Money back if it fails. 25 cents postpaid. DORR'S Cholera Cure prevents and cures. 35 cents postpaid.

**BELVEDERE POULTRY FARM**  
AUGUSTA, GA.

## Buff Rocks

That have the proper shape and color that will win in the show-room and will produce winners.

### BIRDS THAT YOU WILL FEEL GOOD

to have in your yards and be proud to see in the show-room. Not being an exhibitor myself, I am willing to sell any bird in my yards. I sell you the stock, you do the winning.

*I raise and sell more Buff Rock winners every year than any other Western Breeder.*

Winning at New York, Hagerstown, Chicago, Cincinnati, Indianapolis, St. Louis and other large shows.

### WRITE FOR WHAT YOU WANT

**B. E. JOHNSON**  
KIRKWOOD, MISSOURI

## O-K POULTRY FOOD

Unproductive fowls soon eat up more than their value, nor can you afford to simply let them forage for food if you expect them to pay. Why not try the scientific method? **The way that's sure to pay!** It costs only a few cents to find out by actual test what O. K. Poultry Food will do in the way of increasing poultry profits.

### O-K-

Poultry Food is a pure conditioner which aids in the digestion of food and the formation of egg-making material and has justly earned the title of "The greatest egg-maker known." Cures Gapes, Pip, Roup, Cholera, Leg-Weakness, and prevents disease. Write for free circular—tells experience of others.

O. K. Stock Food Co., 447 Monon Bldg., Chicago

Only \$12.75 and we Pay the Freight.  
This 230 Egg

### ROYAL INCUBATOR

the world's best hatcher. Don't pay more for poorer machines. Investigate our bargain offer, our bank guarantee and our free trial. It will pay you. Incubator and poultry supply catalog free. Booklet, "Proper Care and Feeding of Chickens, Ducks and Turkeys," 10c; 50c poultry paper one year, 10c.

Royal Incubator Co., Drawer 90 Des Moines, Ia.

for best White Orpington Cock, special club ribbon for best White Orpington Cockerel, special club ribbon for best White Orpington Hen, special club ribbon for best White Orpington Pullet. Only members of the American White Orpington Club are eligible to compete for the prizes. The said club is a national organization, officered by breeders of known standing, and they desire to have every breeder of White Orpington's as a member. Application blanks can be secured by addressing the Secretary, Box 328, Richmond, Va. W. L. Davis, President; Dr. F. S. Bullington, Secretary-Treasurer.

The Annual Poultry, Pigeon and Pet Stock Show to be held in Chicago, January 23rd to 30th, inclusive, 1907, will be an improvement on any of the series of high-class shows heretofore held under the management of the National Fanciers' and Breeders' Association. The exhibits of stock, incubators, brooders, appliances, foods, remedies and all things pertaining to the poultry, pigeon and pet stock industry have at all times taxed to the utmost, the capacity of the largest hall obtainable. The attendance of visitors, always great, was phenomenally large last year. Plans are now being perfected to make the exhibition, whether from the standpoint of the exhibitor, the visitor or the management, better than ever before. Premium lists giving names of judges and the varieties to be passed upon by each of them, and all necessary information to intending patrons will be issued about December 15, 1906. Twenty thousand will be mailed out and it is the intention to have one sent to every interested person, but if for any reason it is not received or additional copies are desired, write to the Secretary, Fred L. Kimmey, 325 Dearborn St., Chicago, Ill.

Columbia, Tenn., is a town of ten thousand people and at the Middle Tennessee show there, November 27-30, this year it was a show of two thousand birds. In quality it was one of the most remarkable shows ever seen in Tennessee for such a large show. The high class of the entire show was the marvel of all the cranks attending. Rhode Island Reds plunged to the front in number and claimed two hundred and twenty choice specimens, and the three Red alleles made a perfect blaze of red fire. Oh, it was hot and awful hot. Next came the bright Golden Buff throughout, and the Orpingtons led the van. White Rocks were strong and of the very highest class. In numbers the White Rocks were close to the Reds and equally as high, perhaps higher in quality, than the Reds. White Wyandottes and Barred Rocks were good and strong and a credit to any show. Taken as a whole it was indeed a credit to any town. The management was excellent and the great numbers of birds on exhibition worked the faithful secretary and others of the management very hard. The ribbons were well placed by Judges Marshall and Maury, although some exhibitors were not very happy because under the score cards the score was not up to the winner's expectations. Early shows may expect low scores, owing to feathering, unless the birds are gotten off very early and groomed especially for that special show. To the great surprise of all the attendance was meagre in the extreme. This shows the town did not appreciate what was going on and the quality of the show or else would not part with the price, twenty-five cents. Among the exhibitors, some at least, this caused complaint as the exhibitors felt like there was not much doing in free advertising. A surging crowd in a show room always pleases the advertiser. If you can get such a crowd for twenty-five cents per admission, then make that the price, but if you can not, then cut to ten, but get the crowd.

When our editor was compelled to rush away from the show room, owing to press of other business, the ribbons had not all been placed and we are requested to withhold the list of winners for our next issue in order that the cards may be verified.

## MURPHY'S

### S. C. WHITE LEGHORNS

Win in the Hottest Company.

Birds Bred Right. Expertly Mated.

Eggs \$2.00 per Setting.

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Pure buff, large and healthy. Our stock is the very best. Eggs \$2.00 for 15.

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Winners at the great A. P. A. Show. Both young and adult stock for sale; also Jubilee Orpington Cockerels. Write for prices and Circular.

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S. C. White, Buff and Black Orpingtons, Pekin, Rouen Indian Runner and Labrador Ducks. Eggs in season. Also English Runts, Maltese Hen, Hungarian Hen, Polish Lynx, White Homers, Blue Homers, Austrian Strassers, German Larks and the best of Squab Breeding Pigeons. Write for prices.

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**Numbers and initials count as words. Please count the words correctly and avoid delay. We keep no books with this department and CASH MUST INvariably ACCOMPANY THE ORDER.**

### BLACK SPANISH

**BLACK SPANISH** exclusively. I raise more Spanish than any breeder in the U. S. Stock of all kinds for sale. Eggs \$1.50 for 15. H. W. Chestnut, Centralia, Kansas. 36

### GAMES

**MOORE'S** Cornish Indian Games. Their near approach to the Standard has been repeatedly emphasized in the greatest shows of America and they are stronger now than ever. They stood at the head in Chicago, Indianapolis, Memphis and Louisville. The first New York and Boston Cockerel is now in my yards. Splendid cockerels for sale. Eggs in season. T. D. Moore, Hopkinsville, Ky. 36

### LEGHORNS

**ROSE Comb Brown Leghorn**, none better. Prize winners at Columbia, Tenn. Eggs \$1.50 for 15 in season. Orders booked now for spring setting. D. B. Graham, Brookwood, Ala. 34

**ROSE Comb Brown Leghorns**—No better layers; good size and healthy. Stock for sale. Eggs for hatching in season. F. L. Dadismon, Independence, W. Va. 34

**300 COCKERELS** for sale, \$1.25 each. S. C. Buff and R. C. White Leghorns. They will please you. J. B. McKenzie, M. D., Wilmington, Ohio. 34

**FOR SALE**—Single Comb Brown Leghorns from prize winners, \$1.00 to \$3.00 each. Safe delivery guaranteed. Write wants. J. F. Hallmark, Route 4, Oneonta, Ala. 33

**FOUR** hens and a cockerel \$7.50. The kind that pay. Only a limited number. Victor Strain Rose Comb White Leghorns, 1810 Sherman Ave., Evanston, Ill. 32

**ROSE COMB** White Leghorns cocks or cockerels. Prices according to quality, \$1.25 \$2.50, \$5.00. Blue Ribbon stock. Write your wants. Fred Nussey, Massaponax, Va. 35

### MINORCAS

**CONCENTRATE** your efforts on Pope's strain single comb Black Minorcas this season. Illustrated circular and price list on application. Chas. G. Pape, Fort Wayne, Ind. 36

**S. C. BLACK** Minorcas that won at Birmingham, Montgomery, Atlanta, Nashville and other shows. Eggs \$2.00 for 15. Stock a matter of correspondence. Mrs. W. S. Porter, Petersburg, Tenn. 31

**ROSE Comb** Black Minorcas—Being overcrowded I will sell a few of my breeders and young stock at attractive prices. Albert Fletcher, Jr., Warrenton, Virginia. 31

### ORPINGTONS

**ORPINGTONS**—Single Comb Buffs exclusively. Absolutely the best egg producers in existence. A most beautiful golden buff, very hardy, easily bred, true to color. Excellent stock at reasonable prices. Eggs, the year round, \$2.00 per 13. Expert poultryman always in charge. North State Poultry Yards, Box 175B, Spray, N. C. 31

**SINGLE Comb** Buff Orpingtons for sale—At World's Fair, St. Louis, I won more prizes in this state than all Orpington breeders combined. Dr. Powell, Elsberry, Mo. 31

**SINGLE Comb** Buff Orpingtons. Bred to lay and to win. Solid buff to the skin. No stock for sale. Eggs \$2.00 per 13. C. M. Clements, Trion, Ga. 32

**SINGLE Comb** Buff Orpingtons. Eggs \$2.00 for 15, \$3.50 for 30. Few trios young stock. Write your wants. J. M. Kelly, Gordonsville, Tenn. 32

**SINGLE Comb** Buff Orpingtons exclusively. Selling fine Cocks and Cockerels cheap, to make room. R. Ludlow Fraser, Walterboro, S. C. 31

### RPINGTONS—Continued

**WHITE** Orpington Home, America's largest specially single comb White Orpington farm. Hundreds of prizes won on birds of my breeding this season. Prize exhibition, breeding and utility birds for sale. Prices low. Write requirements. Earl L. Cook, Munnsville, N. Y. 35

### RHODE ISLAND REDS

**ORDERS** booked now for Rose Comb Rhode Island Red. Eggs at \$1.75 and \$3.00 for spring setting, from 1st prize winners at Nashville, Tenn. D. B. Graham, Brookwood, Ala. 34

**ROSE Comb** Rhode Island Red Cockerels. Rich, even surface and clear under color; sire score 93¼ by Heimlich. Ideal in color, style and shape. Great breeders. Strong, healthy farm raised birds, \$2.00 to \$5.00 each. G. M. Davis, Fairfield, Ill. 31

**SIBLEY'S** Rose Comb Rhode Island Reds. First prize at Detroit and Chicago, 1906, and sweepstakes prizes at both exhibits. Bred for laying quality, size, shape and color. Cockerels for sale. Eggs in season. Frank Churchill Sibley, South Bend, Ind. 36

**RHODE** Island Reds, Rose and Single Comb. Prize stock, correct color and shape. Extra fine layers. Eggs \$2.00 and \$3.00 per 15. See our ad. in The Hen. West Durham Poultry Farm, West Durham, N. C. 32

### WYANDOTTES

**FOR SALE**—Fifty White Wyandotte cockerels, bright, white and hardy. Bargain prices. Satisfaction guaranteed. F. L. Snyder & Co., Lexington, Ky. 34

**BUFF** Wyandottes exclusively. Line bred, prize-winning strain. Prices reasonable. Good trios \$5.00. Eggs \$1.50 and \$2.00 per 15. M. G. Wells, Sellersburg, Ind. 35

**TAYLOR'S** White Wyandottes will please you. Excellent birds at from \$1.50 to \$2.50 each. Eggs in season. Write your wants. J. M. Taylor, Skidmore, Tex. 36

**COLUMBIAN WYANDOTTES**—The fowl that is creating a sensation all over the world. Leading breeders and judges look for a wonderful boom on this variety. Now is the time to go into them. We have 1,000 young birds for sale, and of as good blood as is in the world. At Madison Square Garden, 1906, we won special for largest and best collection, also two out of five firsts, including first, second and fourth on exhibition pens. Birds at right prices. Write at once. Aug. D. Arnold, Box 939, Dillsburg, Pa. 35

### MISCELLANEOUS

**15,000 FERRETS**—Send 6 cents for finest illustrated ferret book published. 48 pages of practical experience from a life study of these useful little animals, telling how to successfully breed and work ferrets, how ferrets clear buildings of rats, drive rabbits from burrows. Price list free. Samuel Farnsworth, Middletown, Ohio. 31

**MOTTLED** Anconas—One hundred splendid cockerels for sale. May batch, high grade stock. The right goods at right prices. F. L. Snyder & Co., Lexington, Ky. 34

**FREE** to every poultry raiser in U. S.—How to cure Roup, Gapes, Bowel Trouble, Cholera, and make your own Louse Killer. A postal card brings it, free. Write J. B. McKenzie, M. D., Wilmington, Ohio, Box H. 31

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**J. G. B. Erwin**, Erwin, Ga., breeder of fine Poultry, Hogs and Cattle. Write for circulars. 33

**ROSE Comb** Rhode Island Reds, Single Comb Buff Orpingtons, Barred Rocks, White Holland Turkeys. Cockerels \$2.00. Turkeys \$2.50. (Mrs.) Rhoda Maddox, Route 3, Livia, Ky. 35

**A TEN** day special sale of Fancy Pigeons and Poultry. Forty-two prizes at last Augusta show. All breeds. Catalogue for stamp. Hunting dogs, Collies, Berkshire Pigs. Try Dorr's Ointment, Poultryman's Medicine Chest, cures all diseases, 25 cents postpaid. Belvedere Poultry Farm, Augusta, Ga. 33

### MISCELLANEOUS—Continued

**BRONZE** Turkeys. Young Toms, \$5.00. M. Atkins, Weaversville, N. C. 31

**WANT** winter eggs? Buy Buckeye's History free. Red Feather Farm, Warren, O. 31

**WANTED**—To buy fresh eggs, country butter, hams and bacon; also poultry; quote prices. Jas. McComb, Jr., Pompano, Fla. 34

**LEROY SEIGFRIED**, Waterloo, N. Y., breeds finest Mammoth Pekin Ducks, Silver Laced Wyandottes, White Wyandottes. Winners at Auburn, Waterloo, New York State Fair. Stock and eggs. 35

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**15,000 FERRETS**. Perfect workers. These animals exterminate rats, hunt rabbits; 48 page illustrated book for 6 cents. Circular price list free. Samuel Farnsworth, Middletown, Ohio. 35

**MAMMOTH** Bronze Turkeys, best of breeding and first prize winners under Judge Emory. Yearling Tom weighs 40 lbs., his sire 50 lbs., hens 25 lbs. Young Toms from this stock \$4.00, pullets, \$3.00. Barred Rock cockerels at \$1.50 to \$5.00. Also Royal bred Poland China Hog stock for sale. Satisfaction guaranteed; 11 years a breeder. H. L. Kennon, R. R. 2, Dunnegan, Mo. 31

**EGGS** from choice stock. S. C. B. Leghorns, S. C. B. P. Rocks, \$1.50 per fifteen. Choice stock of M. B. Turkeys. Geo. E. Patton, State Hospital, Morgantown, N. C. 34

**A FEW** very choice Lakenvelders, Langshans, Muscovy and Rowen Ducks. Exhibition Stock. J. T. Littleton, Greensboro, Ala. 32

**BLUE** and **WHITE FANTAILS**—Have some elegant birds I paid fancy prices for that I will sell at a bargain. J. L. Alley, Box C, Midway, Ala. 31

**MAMMOTH** Muscovy Ducks; Drakes weighing 15 pounds. Good young stock \$1.00 each, mated; not akin. Brown China ganders \$2.00 each. Dennis Bros., Binn's Hall, Va. 31

**S. C. BLACK** MINORCAS, prize winners; extra large. Stock and eggs for sale. Also registered Poland China hogs of the leading strains. Alex Collins, Lewisburg, Tenn. 36

**PURE** bred Homer Pigeons from healthy, vigorous stock. Young (matured) guaranteed mated pairs ready for work. Order now. Winter, this latitude, does not interfere with their breeding. R. C. Black Minorca Chickens. Eggs in season. T. A. Pope, Franklin, Tenn. 33

**SHADY Lawn Poultry Farm**. Prize-winning Toulouse Geese, Muscovy Ducks, White Turkeys, Wyandottes, Rocks, Langshans, Leghorns, Hamburg, Guineas. Stamp for Catalogue. B. F. Kahler, Hughesville, Pa. 36

**POLAND** China Hogs, young stock. Mammoth Bronze Turkeys, Black Langshans, Pekin Ducks, etc. Guarantee good quality or money back. Tuggle Bros., Watertown, Tenn. 36

**PHEASANTS** pay 800 per cent. better than poultry. Easily raised. Bring from \$20.00 to \$150.00 dozen in market. Also Partridges, European Game, Zoological Stock, Swans, Pet stock. Explanatory price, catalogue, 80 pages, colored plates, 250 illustrations, discounts, exchanges, premiums, 20c. Standard Poultry, 90c, setting up. United States Pheasantry, Poughkeepsie, N. Y. 36

**SPECIAL FOR DECEMBER**—White Holland and Mammoth Bronze Toms, \$5.00 to \$6.00 each. Hens of either breed, \$4.00 each. Special prices in lots of six or more. White and Barred Plymouth Rocks, Rhode Island Reds, Black Minorcas, Partridge Cochins and Buff Orpington Cockerels and Pullets, \$2.00 each. Fancy White Orpington Cockerels and Pullets, \$4.00 each for large, well developed birds. Choice White and Brown Leghorns, \$15.00 dozen, if taken at once. Choice lot of White and Silver Laced Wyandottes, \$20.00 dozen. Egg orders booked now, \$2.00 and \$1.50 per 15. Shropshire and Southdown Rams and Bred Ewes of the best breeding and registered, \$25.00 each. Berkshire, Chester White and Poland China pigs, all ages. Write today, address James Hobbs, 1521 Mount Royal Avenue, Baltimore, Md. 31

## MISCELLANEOUS—Continued

FOR SALE—Cockerels and pullets. Fine S. C. Brown Leghorns (Wittman's), Barred Rocks (Ringlets), \$1.00 each. Trios \$2.75. Poland China Boars, \$10.00. McQuary & Co., Plato, Ky. 35

## SEVERAL VARIETIES

TURKEYS, mammoth Bronze, Bourbon Red, White Holland, and Narragansett. Cockerels, Buff Orpington, Lt. Brahma, Barred and Buff Rocks, Silver Wyandottes and Black Minorcas. L. Durigg & Son, Armstrong's Mills, Ohio. 34

THOMPSON Ringlet Rocks, cockerels and pullets for sale, both light and dark mating, also S. C. W. Orpington cockerels. Write J. H. Worley, Mercer, Pa. 33

FOR SALE—Clean bred cockerels, 5 R. C. Rhode Island Reds, 3 stay White Wyandottes. Price \$2.00. Albert Wiley, Woodville, Tennessee. 31

RHODE Island Red, White Wyandottes and White Plymouth Rock; best blood. Eggs, special matings, \$2.00 per 15. R. E. Travis, Bonnie View Poultry Yards, Goodlettsville, Tenn. 34

BLACK Langshan cockerels from prize winning stock; also pure bred R. I. Red and B. P. Rock cockerels. Reasonable terms. Mrs. F. O. Hurt, Limrock, Ala. 34

I HAVE some good value in Buff and Silver Penciled Wyandottes, also Buff Leghorn cockerels, prize winning stock. Price right. Albert McDonald, Elsherry, Mo. 34

COLUMBIAN Wyandottes, Buff Leghorns; no better varieties for beauty or utility. Your money back if not as represented. Prices right. W. B. Fellows, Marlette, Mich. 34

FIFTY fine S. C. B. Leghorn hens \$10.00 per dozen. Cockerels sired by a remarkable 7 lb. cock direct from William F. Brace, mated to fine large hens also from Brace, \$2 and \$5 each. Also Bradley Bros. strongest pullet and cockerel lines in Barred Plymouth Rocks. Strawberry Hill Poultry Yards, Box 287, Richmond, Va. Member American Leghorn Club. 33

SUNFLOWER Poultry Farm can furnish you the best in Black Minorcas, Black Langshans, Brown Leghorns, Buff Orpingtons, Light Brahmas and Rhode Island Reds. Young stock ready for delivery. A few this year's breeders at bargain prices. Eggs after November at \$2.00 per setting. Satisfaction or your money back. B. E. Greer, Magnolia, Ark. 33

CLOSING out sale, all must go at once; 40 Barred Rocks, 14 Black Minorcas, \$1.50 each; 8 Buff Wyandottes, \$2.00 each; 3 pairs Buff Cochins Bantams, \$2.00 pair. J. C. McDams, Elon College, N. C. 31

SATISFACTION guaranteed if I fill your order for some of my S. C. White Leghorns (Van Dresser strain), or Hawkins strain White Wyandottes or Barred Rocks. Won all the leading prizes at our county fair in a large class. 300 fine birds for sale at right prices. M. Earl Forrest, Rutland, O. 31

FOR SALE OR EXCHANGE—White Wyandottes, two Incubators and two Brooders, for B. P. Rocks or S. C. Rhode Island Reds. Julian L. Shipp, Chattanooga, Tenn. 31

WHITE and Silver Wyandottes, specialties, S. C. White Leghorns, B. P. Rocks, Bradley strain. Stock and eggs at bargains; 600 to select from. Satisfaction of money back. Ideal Poultry and Stock Farm, Afton, Tenn. 32

## TOO LATE TO CLASSIFY

S. C. R. I. RED cockerels for sale—Tompkin's strain—from first prize cock, World's Fair. Eggs for sale in season, \$2.50 for 15. S. J. Tetley, Farmington, Mo. 36

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Buy your eggs from trap-nested layers, pens averaging 190 eggs.

Eggs for June only, \$1.50

Also four beautiful St. Bernard puppies sired by Black Knight, best son of Champion Alta Bruce.

Would be glad to quote prices on all kinds of live stock and poultry.

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J. S. GWIN, - Lexington, Miss.

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Good as the BEST. Makes hens lay; keeps them healthy. Egg Preservative; keeps eggs perfectly fresh for months. Fumigating Nest Egg; drives lice and fleas from hens and nests. A great combination for poultry raisers. Write for descriptive circular to ECONOMY CO., 2304 Station G, Washington, D. C.

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S. C. W. Leghorns and Collies. Second Prize Pen Central Arkansas Fair, Oct. 23 to 26, 1906. Twenty-four Cockerels and Pullets at the right prices, also a few hens. The Collies, Vermont Butte and Kirkmore Prince at Stud. Fee \$7.50. Pups for sale all times. Write for circular.

W. S. KING, - - - Lonoke, Ark.

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### Show Dates Claimed

The attention of secretaries of the coming fall shows is called to the following dates. If any errors are found they will please report the same to this office for correction.

#### ALABAMA.

Mobile Poultry Breeders Association, Mobile, Ala., Dec. 18-21, 1906. Edw. R. Hayssen, Secretary; N. L. Hutchinson, Judge.

#### ARKANSAS.

Waldron, Ark. Dec. 13-15, 1906. G. W. Brown, Judge; H. J. Hall, Secretary.

#### GEORGIA.

Piedmont Poultry Association, Atlanta, Ga. Jan. 23-29, 1907. F. L. Mixon, Secretary; F. J. Marshall, Judge.

Atlanta Poultry Association, Atlanta, Ga. Dates and judges not settled. H. F. Reils, Secretary.

#### ILLINOIS.

Chicago, Ill., January 23-30, 1907. Fred L. Kimmey, Secretary, 325 Dearborn street.

Elgin, Ill., Poultry Association. Jan. 1 to 5, 1907. F. H. Shellabarger, Judge; W. W. Britton, Secretary.

Macomb, Ill. Jan. 7-10, 1907. A. L. Moore, Secretary; Pierce, McClave, Tucker, Fite and Heyl, Judges.

Rockford, Ill., January 21-26, 1907. Shellabarger and Riggs, Judges; C. S. Gilbert, Secretary.

#### INDIANA.

Indianapolis, Ind. Feb. 2-3, 1907. Lane, W. C. Pierce, Russell, Rhodes, Campbell and Baker, Judges; E. A. Pierce, Secretary.

#### KENTUCKY.

Owensboro, Ky. Dec. 31-Jan. 6. Frank Heck, Judge; D. O'C. Dougherty, Secretary.

#### MASSACHUSETTS.

Boston, Mass. Jan. 15-19. S. L. Roberts, Secy., South Attlebury, Mass.

Worcester, Mass. Jan. 23-26, 1907. Fred Midgley, Secretary.

#### MICHIGAN.

Ann Arbor, Mich. Jan. 28-Feb. 2, 1907. G. R. Cooper, Secretary; Tucker & Campbell, Judges.

#### MISSOURI.

Gordonville, Mo., Dec. 31, 1906, to Jan. 3, 1907. D. T. Heimlich, Judge; G. S. Summers, Secretary.

St. Joseph, Mo., Jan. 21-27, 1907. C. H. Rhodes, Adam Thompson and Chas. Heuschle, Judges; E. L. McDonald, Secretary.

#### MISSISSIPPI.

Aberdeen, Miss., Jan. 1-4, 1907. F. J. Marshall, Judge; J. W. Eskridge, Secretary.

#### NEW YORK.

Auburn, N. Y., Auburn Fanciers' Association, January 7-12, 1907. T. E. Orr, Thos. E. Rigg, Newton Cosh, Eugene Sites, M. Davenport, W. C. Denny, M. S. Gardner, Andrew Riddell, H. Trafford and Clarence W. King, Judges; J. H. Scott, Secretary, 80 State St., Auburn, N. Y. Meeting of American Poultry Association same time and place.

Madison Square Garden, New York City, January 1-5, 1907. H. V. Crawford, Secretary, Montclair, N. J.

#### NORTH CAROLINA.

Charlotte Poultry Association, Charlotte, N. C. Jan. 14-19, 1907. W. B. Alexander, Secretary; G. O. Brown, Judge.

North Carolina Poultry Association, Greensboro, N. C., Jan. 8-11, 1907. J. S. Jeffreys, Secy.; W. C. Denny, Judge.

Monroe Poultry Association, Monroe, N. C. T. P. Dillon, Secretary. Jan. 8-11, 1907. Geo. O. Brown and Geo. W. Mean, Judges.

#### OHIO.

Cincinnati, O. Jan. 15-19. T. J. Foy, Secy. Greenfield, Ohio. Dec. 31, 1906, Jan. 5, 1907. Lee W. Devoss, Secretary; D. J. Lambert, Judge.

Lima, Ohio, Jan. 2 to 5, 1907. Ed. Helser, Secretary; Judges J. E. Gault and C. E. Cram.

Oak Harbor, Ohio. Jan. 15-18, 1907. N. H. Blecker, Secretary; Chas. E. Cram, Judge.

Painesville, Ohio, Jan. 9-11, 1907. D. J. Lamberts, Judge; Ira M. Crowther, Secretary.

Ravenna, Ohio. Dec. 19 to 24, 1906. H. A. Beck, Secretary; J. E. Gault, Judge.

Sidney, Ohio, Jan. 8 to 12, 1907. Earl Lee, Secretary; Judges J. E. Gault and C. E. Cram.

Springfield, Ohio. Jan. 28-Feb. 2, 1907. Albert Seitz, Secretary; Ira C. Keller, Judge.

Toledo, Ohio, Jan. 24 to 28, 1907. A. T. Baker, Secy.; Judges J. E. Gault and others.



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### OKLAHOMA.

Enid, Okla. Jan. 8-12, 1907. Fred Roy Ziller, Secretary; C. A. Emry, Judge.  
Guthrie, Okla., December 10-15, 1906. A. Emery and F. E. Buck, Judges; L. F. Laverty, Secretary.

### PENNSYLVANIA.

Scranton, Pa. Jan. 14-19, 1907. A. W. Close, Secretary; Drevendstedt, Pierce and Stanton, Judges.

### SOUTH CAROLINA.

Greenville Poultry, Pigeon and Pet Stock Association, Greenville, S. C., Jan. 15-18, 1906. W. G. McDavid, Secy.

### TENNESSEE.

Bristol, Va.-Tenn., January 2-5, 1907. Geo. O. Brown, Judge; M. D. Andes, Secretary, Bristol, Va.

Franklin, Tenn. Jan. 7-12, 1907. T. M. Campbell, Judge; E. C. Truett, Secretary.  
Greenfield Poultry, Pigeon & Pet Stock Association, Greenfield, Tenn. Dec. 27 to 29, Silas L. Johnson, Secretary; R. E. Jones, Judge.  
East Tennessee Poultry Association, Knoxville, Tenn., Dec. 11-14, 1906. John T. Oates, Secretary; F. J. Marshall, Chas. McClave, Judges.

Tennessee State Show, Nashville, Tenn. Jan. 14-18, 1907. F. J. Marshall, C. H. Denny, C. H. Hansen, Judges. J. A. Murkin, Jr., Secretary.

### TEXAS.

Bonham, Tex., December 13-15, 1906. H. B. Savage, Judge; T. J. Humphreys, Secretary.

Dallas, Texas, Jan. 8-12, 1907. F. J. Marshall, S. B. Lane, Judges; Elbert Beemon, Secretary.

### WEST VIRGINIA.

Clarksburg, W. Va. Feb. 5-8. T. E. Orr, Judge; W. H. Lewis, Secretary.

### WISCONSIN.

Oconomowoc, Wis. Dec. 7-13, 1906. Chas. Behrend, Jr., Secretary; J. A. Tucker, H. Vanslow, Judges.

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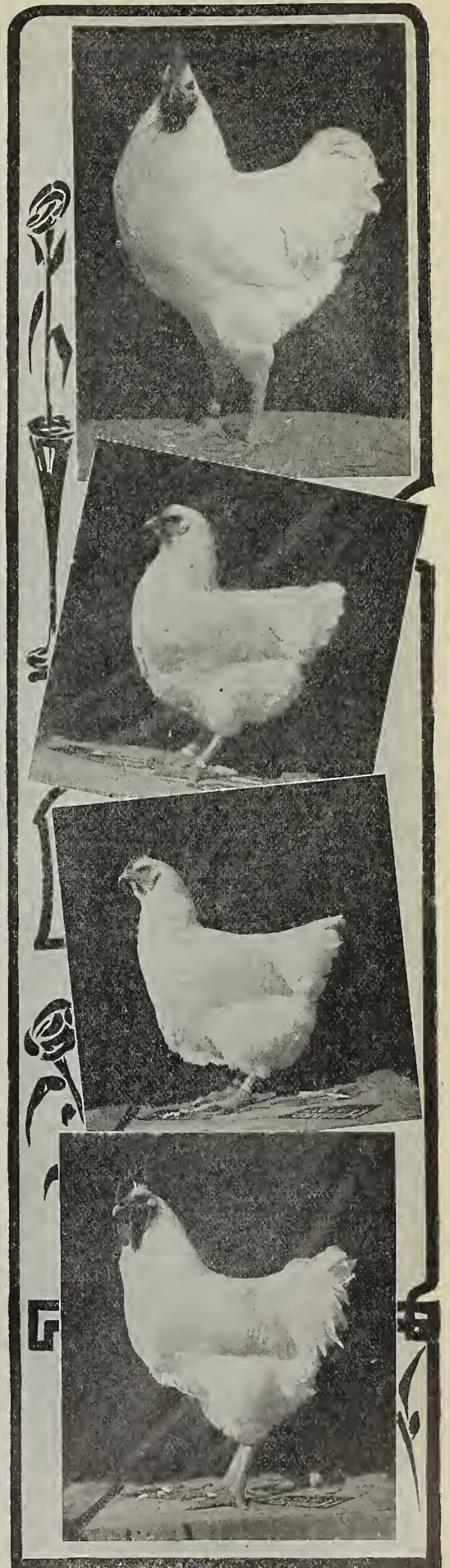
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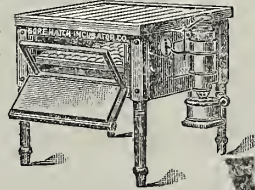
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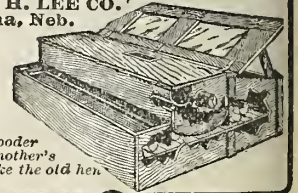
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To whom policy is to be payable .....

# Results are What Count In Placing Your Advertising.

You owe it to yourself to place it where it will do you the most good. Do you want to do it? If so read what these people say about the Southern Poultry Journal as an advertising medium.

I have been a subscriber to your Journal just one year, and during this time have had my "Ad" increased so that I could say a little more to the many readers of the Journal. I deem the Southern Poultry Journal one among the best journals printed in the South, and anyone having eggs or stock for sale will do well to put their "ad" in the Southern Poultry Journal if they want quick returns.—C. H. Dozier, Marion, Ala.

I am glad to say the S. P. J. is growing better all the time, and it is the best advertising medium I ever saw.—Park Poultry Plant, Lafayette, Ga.

I have always found S. P. J. to be one of my best advertising mediums. The amount of space I carry in it year after year is proof of this.—A. T. Maund, Geneva, Ga.

The Southern Poultry Journal has brought me quite a number of customers for eggs, and inquiries for breeding stock. I have no reason to be dissatisfied with what it has done for me in my first few months advertising.—Wm. B. Ewing, Pass Christian, Miss.

Your paper has done me lots of good all over the South. Thanks to such a medium.—L. K. Terrell, Birmingham, Ala.

I sold all my surplus stock in a short time, and could have sold a great many more if I had had them. I received orders and inquiries from eight states, namely Kentucky, Tennessee, Georgia, Alabama, Mississippi, Louisiana and Texas—the result of an advertisement of less than 30 words for only two months.—Mrs. M. J. Stewart, Portersville, Ala.

All Leghorns sold and have turned down orders for several hundred I couldn't fill. The ad in S. P. J. did the work as usual.—R. H. Ihrle, Ihrle, Miss.

Please take out my ad as I have sold everything. I got inquiries from Texas, Louisiana, Mississippi, Alabama, Florida, South Carolina, and Arkansas, and sold stock to most of them.—C. L. Peacock, Ellaville, Ga.

Your paper is the best advertising medium for the Southern fancier in the world. I have ten inches of space in other papers, and your paper has brought me more business than all the rest.—C. Wayne Fowler, Smyrna, Ga.

The S. P. J. has given us more business than we anticipated. Its known progressive policy is commendable.—Caddo Downs Poultry and Stock Co., Ltd., Shreveport, La.

I wish to inform you that I am in every way satisfied with my results from my ad in your journal.—Mrs. Jewett Booth, Nicholson, Miss.

Thanks to S. P. J. for sending us a first-class trade on stock and eggs.—Audubon Poultry Plant, Ponchatoula, La.

We have just closed the most successful egg season we have ever had. Your paper brought us more than its share of inquiries, and from people who meant business.—McCamy & Davis, Dalton, Ga.

We are pleased to say much of our past season's business and inquiries came from our advertisement in the Southern Poultry Journal, which we term second to none for selling stock and eggs.—Wilber Bros., Petros, Tenn.

The Southern Poultry Journal has no superior if any equal in the United States as an advertising medium for the breeder of high-class poultry.—D. M. Owen, Athens, Tenn.

Southern Poultry Journal is my very best advertising medium.—Alf Bertling.

From our ad in your paper, we sold one party 700, one 250, and several 100 eggs. Don't that speak well for your paper.—A. W. Skardon & Co., New Orleans, La.

Don't risk your money by placing an ad in a paper that has not been proven as an advertising medium.

The Southern Poultry Journal has stood the test of thirteen years. Send for a book full of expressions from satisfied advertisers. Rates are reasonable. Sample copy free.

## Southern Poultry Journal,

Under Management of

SAMUEL J. HOPPER,

JULIAN McCAMY, Dalton, Ga., Associate Editor.

Box 1115.

Dallas, Texas.

# DOES 47% SAVING INTEREST YOU?



## Greatest Subscription Bargain of the Year

**We can save you 47% in your Literature for the coming season if you take advantage NOW. 47% saved is 47% made.**

Following is our most attractive fall subscription list. We have spent a great deal of time perfecting combination rates that would be effective, and have now the strongest and best list of publications with the lowest prices that it is possible to get together. No substitutes will be accepted, except as indicated. If you intend to take advantage of either one of these propositions we would advise you to do so at once, as these prices can not stand. **We have cut out the middleman's profit.**

The time for subscribing to only one periodical is past. Every refined home, where good reading is appreciated, is not without its family group of periodicals—something for the father, mother and children. This list of magazines will fill the bill completely for a year's supply and at less cost than they could possibly be had singly.

The following publications, including the biggest Magazines, have entered this combination at the smallest prices. Read the following unparalleled offers, make your selection and write name and address plainly:

OFFER No. 9	Harper's Magazine or Harper's Weekly .....	\$4.00
	Harper's Bazar or any \$1 Magazine mentioned below ...	1.00
	The Farm Journal (2 Years) or any 50c Magazine mentioned below ...	.50
	The Industrious Hen Leading Poultry Journal of the South....	.50
	Actual Selling Value .....	\$6.00

OUR  
PRICE  
**\$4.50**

OFFER No. 10	World's Work, McClures' and The Delineator, the three .....	\$5.00
	No substitute can be made in the above	
	Bob Taylor's Magazine or any \$1 Magazine mentioned below ....	1.00
	Southern Agriculturist or any 50c Magazine mentioned below ...	.50
	The Industrious Hen Leading Poultry Journal of the South ...	.50
	Actual Selling Value .....	\$7.00

OUR  
PRICE  
**\$4.00**

OFFER No. 11	Review of Reviews .....	\$1.00
	Success Magazine, .....	1.00
	Woman's Home Companion or any \$1 Magazine mentioned below ....	1.00
	The Industrious Hen Leading Poultry Journal of the South ...	.50
	Actual Selling Value .....	\$5.50

OUR  
PRICE  
**\$3.00**

OFFER No. 12	Woman's National Daily or any \$1 Magazine mentioned below ....	\$1.00
	Success Magazine or any \$1 Magazine mentioned below .....	1.00
	Farm Journal (2 Years) or any 50c Magazine mentioned below ....	.50
	The Industrious Hen Leading Poultry Journal of the South .....	.50
	Actual Selling Value .....	\$3.00

OUR  
PRICE  
**\$1.75**

OFFER No. 13	Farming (see ad on page 217) .....	\$1.00
	\$1000 Accident Insurance Policy Fully paid for one year, without any dues or assessments, entitling holder to \$5 a week if disabled — FREE — Actual Value .....	5.00
	The Industrious Hen .....	.50
	Actual Selling Value .....	\$6.50

OUR  
PRICE  
**\$1.50**

**\$1.00 List**—Harper's Bazar, Cosmopolitan Magazine, Woman's Home Companion, Bob Taylor's Magazine, Rural Magazine, Woman's National DAILY, The American Boy, Apple Specialist 2 year, Success Magazine.

**50c. List**—Southern Agriculturist, American Farmer, Successful Farming, Green's Fruit Grower, Farm Journal 2 years.

**SPECIAL**—By adding \$1 to offers No. 9, 10, 11 or 12, *Farming* for one year and the \$1,000 Accident free Insurance Policy will be included. For description of this policy see November Hen.

All orders must include a subscription to The Industrious Hen, and all subscriptions are for one year, except where stated, new or renewal, to one or separate addresses, and each magazine may commence with any date desired. Address all orders, accompanied with the cash, to

**THE INDUSTRIOUS HEN CO., Knoxville, Tenn.**

# BLACK LANGSHANS BUFF COCHINS

SAMPLES OF COOP LABELS

## SECRETARIES OF POULTRY SHOWS:

The above are samples of Coop Labels to be put on every coop in your show. Many people visiting the poultry shows are compelled to ask questions about birds that could be easily answered by a label. These labels are  $1\frac{1}{2} \times 11$  inches, printed in black ink on good white board and are to be tacked on the coops.

We furnish a printed list of these labels that you may select exactly what you want at \$2.00 per 100—some of every variety.

STANDARD SCORE CARDS—15c to 30c per 100. With advertisement of Industrious Hen printed on back, 10c to 20c per 100.

Send for List, Samples and Prices, AT ONCE.

**THE INDUSTRIOUS HEN CO.**  
**KNOXVILLE, - - - - - TENNESSEE**

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BREEDERS AND EXHIBITORS FOR OVER

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Barred and White Plymouth Rocks,  
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ALSO HAVE A CHOICE KENNEL OF ROUGH COATED

## SCOTCH COLLIES.

WRITE FOR SPECIAL PRICE LIST.

**BILTMORE POULTRY YARDS,**  
**BILTMORE, N. C.**

# MR. FANCIER:

Don't fail to send your birds to the

## BRISTOL POULTRY SHOW


JANUARY 2-3-4-5, 1907

Which will undoubtedly be the

## BIGGEST AND BEST SHOW

Ever seen in East Tennessee or Southwest Virginia. The Finest Hall in the two States. LIBERAL PREMIUMS. Right treatment and a square deal all round. Write today for Premium List to

**M. D. ANDES, Secretary, Bristol, Tennessee**

 **GEO. O. BROWN**, one of the most prominent and fairest Judges in the National Association, will judge our show

**A SCORE CARD FROM BROWN IS WORTH DOLLARS TO YOU**

THE MOST WONDERFUL BOOK IN EXISTENCE IS THE ONE JUST OFF THE PRESS BY  
**REV. THOMAS SEXTON,**

*The Blacksmith Preacher*

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30 Illustrations. Brim Full of Sharp Sayings and Sarcastic Criticisms

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**Price 50c (By Mail 60c). The Industrious Hen, 1 yr, 50c  
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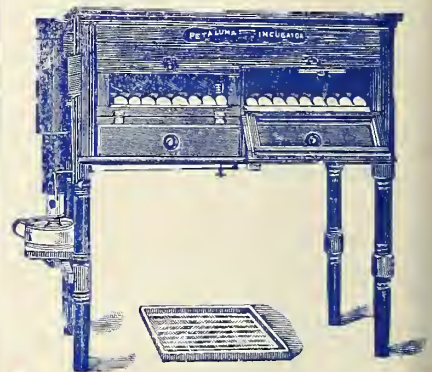
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